ELECTRICAL DEMOLITION NOTES:

- THE CONTRACTOR SHALL VISIT THE PREMISES AND COMPARE SAME WITH A FULL SET OF BID DOCUMENTS AND SPECIFICATIONS AND SATISFY HIMSELF OF THE CONDITIONS EXISTING AT THE BUILDING BEFORE DELIVERY OF HIS PROPOSAL. NO ADDITIONAL ALLOWANCE WILL BE MADE TO THE CONTRACTOR DUE TO HIS NEGLECT OR FAILURE TO COMPLY WITH THE SPECIFIED REQUIREMENTS.
- NOTES AND GRAPHIC REPRESENTATIONS SHALL NOT LIMIT THE EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT THE SITE, CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL DEMOLITION REQUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS. EXTENT OF ALL DEMOLITION WORK SHALL BE COORDINATED WITH THE ARCHITECT.
- 3 ALL WORK REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATIONS SHALL BE RELOCATED AND RECONNECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.
- EQUIPMENT AND WIRING TO BE REMOVED SHALL BE DE-ENERGIZED PRIOR TO ANY DEMOLITION WORK. TEMPORARY LIGHTING SHALL BE PROVIDED ON THE ENTIRE FLOOR BEING DEMOLISHED UNTIL THE WORK IS COMPLETE.
- EQUIPMENT INDICATED TO BE REMOVED SHALL BE TAKEN FROM THE SITE AND DISPOSED OF IN 5. ACCORDANCE WITH APPLICABLE LAWS AND ENVIRONMENTAL REGULATIONS. EQUIPMENT REQUIRED TO BE TURNED OVER TO THE OWNER SHALL BE PLACED IN A MUTUALLY ACCEPTABLE LOCATION.
- THE WORK SHALL INCLUDE THE REMOVAL OF MATERIALS AS DIRECTED. PRIOR TO REMOVING EQUIPMENT AND MATERIALS FROM THE PROJECT SITE, THE OWNER'S MANAGER SHALL INSPECT AND ADVISE WHICH ITEMS WILL BE RESTORED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL FROM THE PREMISES ALL DEBRIS 7 RESULTING FROM REMOVAL OF ELECTRICAL WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ROUGH PATCHING, REPAIRING AND FIREPROOFING 8. ALL OPENINGS IN FLOORS OR WALLS AS REQUIRED AFTER REMOVAL OF ANY CONDUITS OR WIRE. FINISH PATCHING SHALL BE PERFORMED BY ANOTHER DIVISION.
- 9. THIS CONTRACTOR SHALL MAINTAIN CONTINUITY OF SERVICE TO EXISTING BUILDING FIRE ALARM SYSTEM. COORDINATE WITH BUILDING MANAGER.
- 10. THIS CONTRACTOR SHALL NOT DISCONNECT OR REMOVE ANY EXIT LIGHTS. PULL STATIONS AND/OR FIRE ALARM SPEAKERS LOCATED AT STAIR ENTRANCES UNLESS OTHERWISE NOTED.
- 11. THE REMOVAL OF ALL FIRE ALARM, COMMUNICATIONS, DATA AND SECURITY EQUIPMENT AND ASSOCIATED CABLING SHALL BE COORDINATED WITH BUILDING OPERATING PERSONNEL. EXISTING BASE BUILDING FIRE ALARM SYSTEM SHALL REMAIN IN OPERATION DURING BOTH DEMOLITION AND CONSTRUCTION STAGES OF THIS PROJECT.
- 12. REMOVAL OF EXISTING EQUIPMENT SHALL BE COORDINATED WITH REMOVAL AND PARTITIONS.
- 13. DEMOLITION WORK SHALL INCLUDE THE FURNISHING OF ALL MATERIAL CUTTINGS, EXTENSIONS, CONNECTIONS, REPAIRING, ADAPTING AND OTHER WORK INCIDENTAL THERETO, TOGETHER WITH SUCH TEMPORARY CONNECTIONS AS MAY BE REQUIRED.
- 14. THIS CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY LIGHT AND POWER TO INSURE THE SAFETY OF PERSONNEL AND POWER REQUIREMENTS OF THE VARIOUS TRADES.
- 15. WHERE PRESENT WORK IS DAMAGED IN THE EXECUTION OF THIS CONTRACT, OR WHERE OPENINGS ARE LEFT DUE TO THE REMOVAL OF PIPES, EQUIPMENT OR APPARATUS, THE SAME SHALL BE REPAIRED TO CORRESPOND IN MATERIALS, QUALITY, SHAPE AND FINISH WITH THAT OF SIMILAR AND ADJOINING WORK, UNLESS OTHERWISE CALLED FOR.
- 16. CONTRACTOR SHALL ASSURE THAT THE LIGHTING AND POWER TO TOILETS REMAIN IN WORKING CONDITION.
- 17. WHERE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT WILL RESULT IN OUTAGES IN AREAS NOT TO BE DEMOLISHED, THE CONTRACTOR SHALL COORDINATE IN ADVANCE AND OBTAIN THE APPROVAL OF THE BUILDING MANAGER.
- 18. COORDINATE WITH OWNER WHICH FIXTURES, DEVICES AND EQUIPMENT, IF ANY, ARE TO BE REMOVED, KEPT INTACT AND RETURNED TO THE OWNER. IN GENERAL, ALL DEVICES, WIRING, RACEWAYS, BOXES, SUPPORTS AND OTHER APPURTENANCES WHICH ARE TO BE REMOVED SHALL BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
- 19. CONTRACTOR IS TO DISCONNECT AND REMOVE ONLY WIRING AND RACEWAY SERVING FLOOR AREAS OF DEMOLITION. DO NOT REMOVE ANY BASE BUILDING HOMERUN CONDUITS.
- 20. FEEDERS AND BRANCH CIRCUITS TO BE REMOVED CONDUIT AND SUPPORTS SHALL BE REMOVED TO THE PANEL OF ORIGINAL OR THE BOUNDARY OF THE PROJECT AREA. WIRING SHALL BE REMOVED TO THE PANEL OF ORIGIN. WHERE EMPTY CONDUITS REMAIN, INSTALL A PULL STRING AND IDENTIFY AT BOTH ENDS.
- 21. FEEDERS AND BRANCH CIRCUITS TO BE RE-USED REMOVE CONDUIT AND WIRING TO LOCATIONS WHICH AVOID CONFLICTS WITH NEW WORK. INSTALL JUNCTION BOXES, TAPE OFF CONDUCTORS AND IDENTIFY WITH PANEL AND CIRCUIT NUMBER.
- 22. PROVIDE ADDITIONAL SUPPORT FOR ALL EXISTING CONDUITS, LOW VOLTAGE CABLING AND DEVICES TO REMAIN WHICH ARE AFFECTED BY DEMOLITION OF EXISTING CEILINGS AND PARTITIONS.
- 23. ALL EXISTING UNUSED CONDUIT AND WIRING SHALL BE DROPPED TO THE FLOOR BY THE ELECTRICIAN FOR REMOVAL FROM THE BUILDING BY THE DEMOLITION OR GENERAL CONTRACTOR.
- 24. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ASCERTAINING THE FOLLOWING:
- A. WHICH EXISTING CIRCUITS ARE CONNECTED TO CONSTANT CIRCUITS (NIGHT LIGHT, EXIT LIGHTS,
- ETC.) B. WHICH EXISTING CONDUITS ARE CIRCUITS ARE CONNECTED TO EXISTING EQUIPMENT TO REMAIN (TOILETS, JANITOR'S CLOSET, SERVICE ELEVATOR, LOBBY AND RECEPTACLES IN CORE CORRIDORS) AND SHALL MAINTAIN CONTINUITY OF SERVICE TO SUCH EQUIPMENT BY EITHER NEW CIRCUITRY OR EXTENSION OF EXISTING CIRCUITRY.
- 27. UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE THE FOLLOWING:
 - A. EXISTING ELECTRICAL AND TELEPHONE FLOOR OUTLETS HOUSING THESE DEVICES. CONTRACTOR SHALL PATCH OPENINGS FLUSH WITH FLOOR WITH SUITABLE MATERIALS TO MATCH EXISTING.
 - B. EXISTING POWER AND COMMUNICATION/TELEPHONE WIRING FROM HUNG CEILING AND BELOW RAISED FLOOR.
 - C. EXISTING LIGHTING FIXTURES, RECEPTACLES, OUTLETS AND OTHER ELECTRICAL DEVICES IN WALLS TO BE DEMOLISHED OR WHERE IN CONFLICT WITH NEW CONSTRUCTION (ELECTRICAL DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO TEL/DATA OUTLETS, LIGHTING SWITCHES, RECEPTACLES, ETC.)
- D. ALL CONDUIT AND WIRING BEING REMOVED SHALL BE REMOVED BACK TO SOURCE (PANELBOARD).
- 28. IN THE PROCESS OF REMOVING WIRING DEVICES, LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND MATERIALS, THIS CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO ARCHITECTURAL SURFACES WHICH ARE TO REMAIN. THE COST TO REPAIR OR REPLACE ANY MATERIAL DEEMED BY THE ARCHITECT TO HAVE BEEN UNDULY DAMAGED BY THIS CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BE PAID BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 29. PROVIDE BLANK COVER PLATES AT OPEN BOXES WHERE EXISTING RECEPTACLES OR ELECTRICAL DEVICES ARE REMOVED FROM ENCLOSURES OR SURFACES NOT INDICATED TO BE REPAIRED OR REFINISHED.
- 30. ALL WORK SHALL BE PROPERLY IDENTIFIED AFTER DEMOLITION. UPDATE ALL PANEL SCHEDULES TO REFLECT EQUIPMENT AND CIRCUIT REMOVALS.
- 31. ALL PANELBOARDS AND ANY OTHER EQUIPMENT IN AREAS TO BE DEMOLISHED ARE TO REMAIN UNLESS OTHERWISE NOTED.
- 32. CONTRACTOR SHALL RECYCLE ALL LIGHTING FIXTURE LAMPS AND BALLAST TO BE REMOVED. COORDINATE WITH BUILDING MANAGEMENT.

ELECTRICAL GENERAL NOTES

- 1. BEFORE SUBMITTING THE BID PROPOSAL, THE CONTRACTOR SHALL:
- A. VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH JOB CONDITIONS. B. REVIEW A FULL SET OF BID DOCUMENTS TO BECOME AWARE OF THE TOTAL JO
- SUBMITTING PRICE. C. VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND INCLUDE IN BID PRICE ALL REQUIRED TO ACCOMMODATE THE EXISTING INSTALLATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE FOLLOWING: 2.
 - A. EXACT LOCATION OF ALL ELECTRICAL OUTLETS AND LIGHTING FIXTURES. B. FINAL LOCATION OF CEILING MOUNTED EQUIPMENT. C. ELECTRIFIED WALL PANEL SYSTEMS.
- D. ADDITIONAL ELECTRICAL REQUIREMENTS.
- COORDINATE WITH OTHER TRADES TO DETERMINE THE EXACT LOCATION OF MOTOR TERMINAL BOXES, AND OTHER EQUIPMENT TO BE INSTALLED BY OTHER TRADES BEI WORK IS STARTED. REFER TO MECHANICAL, PLUMBING, AND FIRE PROTECTION DRA LOCATIONS OF ALL EQUIPMENT.
- CONTRACTOR SHALL PROVIDE AND CONNECT ALL RACEWAYS AND WIRING FROM EC DEVICES AND LIGHTING FIXTURES TO ITS SOURCE OF POWER AND CONTROLS.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF FINISHED CONSTRUCTION PRIOR FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL VERIFY SWITCHES, RECEPTACLES AND PLATE FIN ARCHITECT BEFORE PERFORMING INSTALLATION. ALL COVERPLATES SHALL BE AS ARCHITECT.
- EXISTING EQUIPMENT AFFECTED BY THE WORK OF THIS CONTRACT SHALL BE COMP IDENTIFIED IN ACCORDANCE WITH THE REQUIREMENTS OF THIS CONTRACT.
- COORDINATE LOCATION OF OUTLETS AND SWITCHES WITH FURNITURE AND EQUIPM AND WITH OWNER'S REPRESENTATIVE.
- ANY EXISTING WORK DAMAGED AS A RESULT OF PERFORMING THE WORK OF THIS (BE REPAIRED OR REPLACED AS REQUIRED. MATERIAL AND FINISH TO MATCH EXISTI SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- ALL WORK REQUIRING ELECTRICAL SHUTDOWN WHICH WILL AFFECT OTHER FLOORS 10 BUILDING OR EVEN AFFECT THE NORMAL CONTINUATION OF CONSTRUCTION WORK FLOORS, SHALL BE DONE ON OVERTIME HOURS, AND SHALL NOT DISTURB CONTINU ELECTRICAL SERVICE TO EXISTING TENANTS ON THE AFFECTED FLOORS. COORDINA REQUIREMENTS WITH BUILDING MANAGEMENT PROVIDING A MINIMUM OF ONE WEEK NOTICE.
- ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT BY THIS WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION THE ELECTRICAL SYSTEM OF THE BUILDING(S).
- 12. WHERE MULTIPLE SWITCHES AND RECEPTACLES ARE INDICATED AT THE SAME LOC/ SHALL BE MOUNTED BEHIND A COMMON FACEPLATE.
- 13. MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES SHALL BE AS INDICATED ON THE / DRAWINGS. WHERE MOUNTING HEIGHTS ARE NOT GIVEN ON THE ARCHITECTURAL D UTILIZE THE FOLLOWING MOUNTING HEIGHTS UNLESS OTHERWISE NOTED (ALL DIME CENTERLINE OF BOX):
 - A. RECEPTACLES (WALL MOUNTED) 18" AFF
 - B. RECEPTACLES (COUNTER HEIGHT) HORIZONTAL 6" ABOVE COUNTER C. FURNITURE FEEDS (WALL MOUNTED) - SAME HEIGHT AS RECEPTACLES
 - D. TELEPHONE/DATA OUTLETS SAME HEIGHT AS RECEPTACLES (WALL MOUNTED)
 - WALL MOUNTED TELEPHONES 48" AFF
 - LIGHTING SWITCHES AND CONTROLS 48" AFF G. LIGHTING FIXTURES (AREAS WITHOUT CEILINGS) - 9'-6" AFF
 - H. FIRE ALARM AUDIO/VISUAL AND STROBE UNITS 80" AFF
 - MANUAL FIRE ALARM STATIONS 48" AFF J. PANELBOARDS AND CABINETS - 78" TO TOP OF ENCLOSURE
- WHERE EQUIPMENT, LIGHTING FIXTURES AND WIRING DEVICES ARE SHOWN WITH C ONLY, THE MINIMUM BRANCH CIRCUITING REQUIREMENTS SHALL BE AS FOLLOWS:
- A. IN ACCORDANCE WITH N.E.C. ARTICLE 210.4 (B), CONTRACTOR SHALL PROVIDE NEUTRAL CONDUCTORS FOR EACH PHASE CONDUCTOR OF SINGLE PHASE LIGH RECEPTACLE BRANCH CIRCUITS, OR PROVIDE MULTI-POLE CIRCUIT BREAKERS PANELBOARDS WHERE USING A COMMON NEUTRAL FOR TWO OR THREE, SING CIRCUIT HOMERUNS.
- B. LIGHTING FIXTURES 2 #12, #12 GRD. ³/₄" C.
- RECEPTACLES 2#12, #12 GRD. ³/₄" C. BRANCH CIRCUIT BREAKERS (120 VOLT) 1P, 20A
- HOMERUNS TO PANELBOARDS SHALL CONTAIN NO MORE THAN (3) CIRCUITS.
- 208/120 VOLT 480/277 VOLT WIRING SHALL BE RUN IN SEPARATE RACEWAY SYS
- G. EMERGENCY SERVICES SHALL BE RUN IN SEPARATE RACEWAYS FROM ALL OTI H. WHERE LIGHTING SWITCH INDICATIONS ARE NOT SHOWN, SWITCHES SHALL BE
- CONTROL ALL SWITCHED FIXTURES WITHIN THE CORRESPONDING SPACE. 18. WHERE CONDUIT AND WIRING CONNECTIONS ARE NOT SHOWN ON THE PLANS, MAKI
- AS FOLLOWS: A. USE #10 AWG WIRE TO THE FIRST AND ANY OUTLET FOR BRANCH CIRCUIT RUN
- FEET FOR 120V AND 208V CIRCUITS, U.O.N. B. USE #10 AWG WIRE TO THE FIRST AND ANY OUTLET FOR BRANCH CIRCUIT RUN
- 150 FEET FOR 265V AND 460V CIRCUITS, U.O.N.
- 19. ALL BRANCH CIRCUIT WIRING SHALL BE RUN CONCEALED IN WALLS AND/OR ABOVE I UNLESS OTHERWISE NOTED.
- 20. WIRING IN AIR PLENUM HUNG CEILINGS INSTALLED WITHOUT CONDUIT OR EMT SHAL JACKETED.
- 21. NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS POWER
- 22. CONTRACTOR TO DE-RATE CONDUCTORS IN ACCORDANCE WITH THE 2008 NATIONAL CODE WHEN INSTALLING MORE THAN THREE (3) CIRCUITS IN A $\frac{3}{4}$ "C HOMERUN.
- 23. FOR WIRING IN EXISTING PARTITIONS WHERE EMT INSTALLATION IS IMPRACTICAL, FL GALVANIZED STEEL CONDUIT SHALL BE ACCEPTED. COORDINATE EXACT SIZE WITH S CABLING REQUIREMENTS. MINIMUM SIZE USED SHALL BE $\frac{3}{4}$ ".
- PROVIDE DRAG LINES IN ALL EMPTY RACEWAYS.
- ALL CONDUITS FOR BRANCH CIRCUITING AND/OR COMMUNICATIONS CABLING, INCLU 25. RUN IN CEILING OF FLOOR BELOW SHALL BE IDENTIFIED AT EVERY 50 FEET OF LENG OUTLET AND PULL BOX WITH PANEL AND CIRCUIT NUMBER OR SYSTEM NAME.
- 26. CONTRACTOR SHALL PROVIDE AN EMPTY CONDUIT SYSTEM WITH DRAG LINES AND (FOR INSTALLATION OF LOW TENSION WIRING SYSTEM. VERIFY EXACT REQUIREMEN VENDOR.
- THE MINIMUM RATING OF DISCONNECT SWITCHES SHALL BE EQUAL TO OR GREATER THAN THE RATING OF THE PROTECTION DEVICE ON THE SUPPLY SIDE OF THE DISCONNECT SWITCH. MINIMUM DISCONNECT SWITCH SIZE SHALL BE 30 AMPERES.
- 28. CONTRACTOR SHALL NOT INSTALLED SMOKE / CARBON MONOXIDE DETECTORS WITHIN 3 FEET OF ANY AIR OUTLET.

		LIGHTING SYMBOLS									
	THE FOLLOWING ABBREVIATIONS ARE APPLICABLE TO ALL LIGHTING FIXTURES UNLESS OTHERWISE NOTED. REFER TO ARCHITECTURAL DRAWING A-300.00 FOR TYPE, MANUFACTURER, MODEL NUMBER, AND REMARKS FOR ARCHITECTURAL / FRONT-OF-HOUSE LIGHTING FIXTURES AND EXIT SIGNS.										
L WORK	A = FI a = SV EM = NL = U	A = FIXTURE TYPE a = SWITCH DESIGNATION; FIXTURES CONTROLLED BY SWITCH 'a' EM = DENOTES LIGHTING FIXTURE CONNECTED TO INVERTER NL = UNSWITCHED LIGHT FIXTURE									
	L	LIGHTING CONTROLS SYMBOLS									
RS, MOTOR FORE CONDUIT AWINGS FOR	THE FOLLOW OTHERWISE N a = SW a,b = S	ING ABBREVIATIONS ARE APPLICABLE TO ALL LIGHTING CONTROL DEVICES UNLESS NOTED. ARCHITECT TO SELECT COLOR FOR ALL WALL SWITCHES. (ITCH DESIGNATION; CONTROLS LIGHT FIXTURES ON ZONE 'a' WITCH DESIGNATION; CONTROLS LIGHT FIXTURES ON ZONES 'a' AND 'b'									
QUIPMENT,	S _a ³	SINGLE POLE WALL SWITCH. 3 = THREE-WAY 4 = FOUR-WAY									
DR TO		K = KEY OPERATED T = TIME SWITCH P = PILOT LIGHT									
NISHES WITH THE		VS = VACANCY SENSOR SWITCH OS = OCCUPANCY SENSOR SWITCH									
	S^{a}_{DIM}	WALL-MOUNTED DIMMER SWITCH.									
	S ^a _{3,DIM}	WALL-MOUNTED DECORATOR DIMMER SWITCH FOR THREE-WAY DIMMING.									
CONTRACT SHALL		CEILING MOUNTED OCCUPANCY SENSOR SWITCH									
ING TO THE	(VS)	CEILING MOUNTED VACANCY SENSOR SWITCH									
IS OF THE CON THESE IITY OF		CEILING MOUNTED DAYLIGHT HARVEST SENSOR									
ATE SHUTDOWN K ADVANCE		NURSE CALL SYMBOLS									
T IS AFFECTED IN AS PART OF	FOR NURSE C TERMINATED BUSHING.	ALL SYSTEM DEVICES: UNLESS OTHERWISE NOTED, PROVIDE BACKBOX WITH 1" CONDUIT IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING. PROVIDE DRAG WIRE AND									
ATION, THEY		NURSE CALL LAVATORY PULL STATION. (PROVIDE 2 GANG BACK BOX, 2.5"X3.8"X3.75". COORDINATE SIZE WITH NURSE CALL VENDOR									
ARCHITECTURAL DRAWINGS,		NURSE CALL CORRIDOR DOME LIGHT (PROVIDE 2 GANG BACK BOX, 2.5"X3.8"X3.75". COORDINATE SIZE WITH NURSE CALL VENDOR									
ENSIONS TO		VOICE/DATA SYMBOLS									
D)	FOR ALL LOW CONDUIT TER AND BUSHING	-VOLTAGE SYSTEMS DEVICES: UNLESS OTHERWISE NOTED, PROVIDE BACKBOX WITH 1" MINATED IN A 90 DEG. BEND 6" INTO NEAREST ACCESSIBLE CEILING. PROVIDE DRAG WIRE 3.									
	•	WALL-MOUNTED VOICE & DATA OUTLET									
		WALL-MOUNTED TELEPHONE OUTLET									
CIRCUIT NUMBERS		CEILING-MOUNTED DATA OUTLET									
	X.	WIRELESS ACCESS POINT									
S IN S IN S LE PHASE	TV	TELEVISION OUTLET									
	AV	AUDIO/VISUAL OUTLET									
	•	WALL-MOUNTED VOICE OUTLET									
STEMS. HER SYSTEMS. F CONNECTED TO		AUXILIARY SYMBOLS									
	ES	DOOR ELECTRIC STRIKE									
E CONNECTIONS	DR	DOOR RELEASE PUSH BUTTON									
IS MORE THAN 80	·										
IS MORE THAN	E-001	ELECTRICAL SHEET LIST									
HUNG CEILING	E-001	ELECTRICAL SPECIFICATIONS									
LL BE TEFLON	E-003	ELECTRICAL SPECIFICATIONS									
R WIRING.	E-101	ELECTRICAL POWER DEMOLITION PLAN									
AL ELECTRICAL	E-102 E-201	ELECTRICAL LIGHTING DEMOLITION PLAN									
	E-301	ELECTRICAL POWER PLAN									
LEXIBLE SPECIFIED	E-401	ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES									
	E-501	ELECTRICAL DETAILS									
UDING THOSE GTH AND AT EACH											
OUTLET BOXES ITS WITH SYSTEM											

	PANELBOARD SYMBOLS
	RECESSED (FLUSH) MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	CONDULT SYSTEM SYMBOLS
	EXISTING CONDUIT TO REMAIN (FLOOR PLAN)
	EXISTING CONDUIT TO REMAIN (RISER DIAGRAM)
o	
╶╼╫	
DP-3A #2 3#12,1#12G -3/4"C	POWER CIRCUIT HOMERUN TO PANELBOARD - DESIGNATION DENOTES PAN CIRCUIT NUMBERS, NUMBER OF WIRES, WIRE SIZE, AND CONDUIT SIZE.
LP-3A #1,2,3	BRANCH CIRCUIT HOMERUN TO PANELBOARD - ARROWS DENOTE NUMBER DESIGNATION DENOTES PANELBOARD AND CIRCUIT NUMBERS.
	CONDUIT RUN EXPOSED ON CEILING AND WALLS (FLOOR PLAN)
LJ XX	EXISTING CONDUIT/EQUIPMENT TO BE REMOVED
	WIRING TROUGH
	WIRING DEVICES SYMBOLS
₽GFI	WALL-MOUNTED DUPLEX RECEPTACLE, HOSPITAL GRADE, 20A, 125V, 2P, 3 NEMA CONFIGURATION 5-20R. GFI = GROUND FAULT CIRCUIT INTERRUPTER TYPE USB = COMBINATION DUPLEX RECEPTACLE WITH (2) TYPE 'A' USB C EM = RECEPTACLES ON EMERGENCY POWER, COLOR RED
•	WALL-MOUNTED QUADRUPLEX (TWO DUPLEX) RECEPTACLE, HOSPITAL GR. 2P, 3W, GROUNDED. NEMA CONFIGURATION 5-20R.
Φc	WALL-MOUNTED SINGLE RECEPTACLE, HOSPITAL GRADE, 20A, 125V, 2P, 3W NEMA CONFIGURATION 5-20R. C = RECESSED CLOCK RECEPTACLE
₽A	WALL-MOUNTED SINGLE RECEPTACLE, HOSPITAL GRADE, SPECIAL PURPOS A = 20A, 250V, 2P, 3W, SELF-GROUNDING, NEMA CONFIGURATION 6-2
F	FLOOR-MOUNTED QUADRUPLEX (TWO DUPLEX) RECEPTACLE, HOSPITAL GI 2P, 3W, GROUNDED. NEMA CONFIGURATION 5-20R.
	CEILING MOUNTED DUPLEX RECEPTACLE, HOSPITAL GRADE, 20A, 125V, 2P, NEMA CONFIGURATION 5-20R.
Р	POWER POLE, LEGRAND MODEL#30TC4V
	POWER SYMBOLS
5 BV J	MOTOR WITH JUNCTION BOX AND LIQUIDTIGHT FLEXIBLE METALLIC CONDU EQUIPMENT CONNECTION (5 FOOT MAXIMUM LENGTH) NUMERAL DENOTES HORSEPOWER. 'F' - DENOTES FRACTIONAL HORSEPOWER LESS THAN 1/2 HP. 'M' - DENOTES MOTOR OF UNSPECIFIED HORSEPOWER
60A 100A/3P	FUSED DISCONNECT SWITCH, VOLTAGE RATING AS REQUIRED 60A - FUSE AMPS 100A/3P - SWITCH AMPS / # OF POLES
100A/3P	UNFUSED DISCONNECT SWITCH, VOLTAGE RATING AS REQUIRED. RATING S UPSTREAM BRANCH CIRCUIT PROTECTIVE DEVICE. 100A/3P - SWITCH AMPS / # OF POLES
\square_1^{VFD}	STARTER / MOTOR CONTROLLER 1 - NEMA STARTER SIZE VFD = VARIABLE FREQUENCY DRIVE
VFD 30A/3P 1	COMBINATION STARTER / MOTOR CONTROLLER AND UNFUSED DISCONNEC 30A/3P - SWITCH AMPS / # OF POLES 1 - NEMA STARTER SIZE VFD = VARIABLE FREQUENCY DRIVE
1 30A/3P 20A VED	COMBINATION STARTER / MOTOR CONTROLLER AND FUSED DISCONNECT S 30A/3P - SWITCH AMPS / # OF POLES 20A - FUSE AMPS 1 - NEMA STARTER SIZE
1004/30	VFD = VARIABLE FREQUENCY DRIVE ENCLOSED CIRCUIT BREAKER
	100A/3P - FRAME AMPS / # OF POLES 60A, 225AT - TRIP AMPS
0	CEILING-MOUNTED JUNCTION BOX WITH LIQUIDTIGHT FLEXIBLE METALLIC C FINAL EQUIPMENT CONNECTION (5 FOOT MAXIMUM LENGTH)
ю. 	FINAL EQUIPMENT CONNECTION BOX WITH LIQUID FIGHT FLEXIBLE METALLIC CON FINAL EQUIPMENT CONNECTION (5 FOOT MAXIMUM LENGTH) 2 - INDICATED DOUBLE GANG JUNCTION BOX.
J	FLOOR-MOUNTED JUNCTION BOX WITH LIQUID FIGHT FLEXIBLE METALLIC CO FINAL EQUIPMENT CONNECTION (5 FOOT MAXIMUM LENGTH)
S ^{3P}	DISCONNECT SWITCH - TOGGLE TYPE, MOTOR RATED WITH THERMAL OVER PROTECTION - 20A, SINGLE POLE, U.O.N. 2P = TWO POLE 3P = THREE POLE K = KEY OPERATED P = PILOT LIGHT
н©	WALL MOUNTED TELEVISION DATA OUTLET BOX WITH 1" EMPTYWALL-MOUN DATA OUTLET CONDUIT WITH DRAG WIRE STUBBED 6" ABOVE ACCESSIBLE AND TERMINATED WITH BUSHING, HEIGHT BY ARCHITECT.
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR / SURGE PROTECTION DEVICE
{M	ELECTRICITY METER
▲ UUUU ₩ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	460V 500 kVA 120/208V VOLTAGES, WINDINGS, AND SIZE AS INDICATED

6		ABBREVIATIONS	- Montefiore
	A	ABOVE COUNTER	
	AFF ATC	ABOVE FINISHED FLOOR AUTOMATIC TEMPERATURE CONTROL	MONTEFIORE NYACK HOSPITAL
	BAS BFG	BUILDING AUTOMATION SYSTEM BELOW FINISHED GRADE	
IS	BMS	BUILDING MANAGEMENT SYSTEM	
	C CAB	CONDUIT	OUTPATIENT DIAGNOSTIC
	CAT	CATEGORY	
	CLG CKT(S)	CEILING	ALTERATIONS - MAIN LEVEL
	CM	CONTROL MODULE	18 NORTH HIGHLAND AVENUE
	COL	COLUMN	
	C/B	CIRCUIT BREAKER	KEY PLAN: NOT TO SCALE
	¢.	CENTERLINE	
ES PANELBOARD, ZE.	DEM	DRAWING	WORK
	DP-	DISTRIBUTION PANEL (208/120V)	
JMBER OF CIRCUITS.	(E)/EX/EXIST FLFC	EXISTING TO REMAIN	
	EM	EMERGENCY	
	EMR FMT	ELEVATOR MECHANICAL ROOM	
	ER	EXISTING TO BE RELOCATED	
	EWC FXH	ELECTRIC WATER COOLER	
	FA	FIRE ALARM	
	FASS FO	FIRE ALARM SERVICE SWITCH	
	FOPP	FIBER OPTIC PATCH PANEL	
_S	FP EPSS		
V, 2P, 3W, GROUNDED.	FRE	FIBERGLASS REINFORCED EPOXY CONDUIT	
	G/GRD/GND		ARCHITECT
USB CHARGING PORTS	GRC	GALVANIZED RIGID CONDUIT	
	IDF	INTERMEDIATE DISTRIBUTION FRAME	
TAL GRADE, 20A, 123V,	JB	JUNCTION BOX	Pomarico Design Studio Architecture, PLLC Michael A. Pomarico, Architect New York License No.: 019680
2P, 3W, GROUNDED,	KVA		19 Front Street Telephone: 845.561.0448 Newburgh, NY 12550 Facsimile: 845.561.0446
	KWH	KILOWATT HOUR	33 Irving Place, 3rd Floor info@HealthCareDesign.com New York, NY 10004 www.healthcaredesign.com
	LDF	LOCAL DISTRIBUTION FRAME	
PURPOSE ION 6-20R.	LS	LOUDSPEAKER LOCAL SOUND SYSTEM	
	LTG		
ITAL GRADE, 20A, 125V,	MATV	MASTER TELEVISION	
	MDF	MAIN DISTRIBUTION FRAME	Loring Consulting Engineers, Inc.
5V, 2P, 3W, GROUNDED.	MECH	MECHANICAL MECHANICAL EQUIPMENT ROOM	360 West 31 st Street, 14 th Floor New York, NY 10001-2727 Bhome 210 5/ 3 7/00
	MIC		renne 212.565.7400 www.loringengineers.com New York City e Washington, DC e Princeton e Durban e Tannin
	MSB	MAIN SWITCHBOARD MAIN SERVICE SWITCHBOARD	
	N N C		STRUCTURAL ENGINEER
	NIC	NOT IN CONTRACT	
JONDON FOR FINAL	NL		
	NTS	NOT TO SCALE	
	00	ON CENTER	
	PB	PULL BOX	
	PH		
ATING SAME AS	PNL	PANEL	ISSUED DOCUMENTS:
	PP PR	POWER PANEL	No: Date: Description: 1 12.06.2024 ISSUED FOR PERMIT
	R	TO BE REMOVED	
	RC		
ONNECT SWITCH	RGS	RIGID GALVANIZED STEEL	
	SP SP		
NECT SWITCH	SPST	SINGLE FOLE SINGLE THROW	
	SSB SW	SOLID STATE BALLAST	
	TC	TELECOMMUNICATION CLOSET	
	TCC TYP	TEMPERATURE CONTROLS CONTRACTOR	
	UG	UNDER GROUND	
			SEAL
	UPS	UNINTERRUPTIBLE POWER SUPPLY	IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE
	UTP	UNSHIELDED TWISTED PAIR	DIRECTION OF A LICENSED ARCHITECT, TO
	VT	VAPORTIGHT	ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING ARCHITECT SHALL
LIC CONDUIT FOR			AFFIX HIS SEAL AND THE NOTATION "ALTERED
	XP	EXPLOSION PROOF	DATE OF SUCH ALTERATION, AND A SPECIFIC
LLIC CONDUIT FOR			
L OVERLOAD			DRAWING TITLE: ELECTRICAL SYMBOLS.

-MOUNTED VOICE & SSIBLE HUNG CEILING

DEVICE

DATE SCALE N.T.S. 11/19/2024 DRAWING NUMBER

NOTES

PROJECT NUMBER

14404

ABBREVIATIONS, AND

CON #

CAD

1. <u>CODES AND STANDARDS</u>

- A. ALL WORK SHALL BE SYSTEMATICALLY, CAREFULLY AND NEATLY PERFORMED AND SHALL CONFORM TO THE FOLLOWING STANDARDS:
- a. ALL WORK SHALL CONFORM TO ALL REQUIREMENTS OF THE BUILDING CODE OF THE STATE OF NEW YORK AND ALL AUTHORITIES HAVING JURISDICTION
- b. NATIONAL ELECTRICAL CODE NFPA 70, 2017. 2020 NEW YORK STATE BUILDING CODE.
- d. 2020 NEW YORK STATE ENERGY CONSERVATION CODE
- e. UNDERWRITERS' LABORATORIES. INC.
- f. OSHA, AND ALL AGENCIES HAVING JURISDICTION. g. STANDARDS FOR BUILDING ALTERATIONS AND CONSTRUCTION.
- 2. WORK SCOPE
- A. THE SCOPE OF WORK SHALL CONSIST OF THE FOLLOWING:
- a. FURNISHING, INSTALLING AND CONNECTING ALL PANELBOARDS, AUTOMATIC TRANSFER SWITCH, ADDITION TO EXISTING PANELBOARDS, FEEDERS, POWER OUTLETS, LIGHT FIXTURES, SWITCHES, CONTROLS, CONDUITS, AND WIRING
- b. FURNISHING AND INSTALLING NEW TELEPHONE/COMMUNICATION OUTLETS AND RACEWAY.
- FURNISHING AND INSTALLING NEW CIRCUIT BREAKERS. d. OTHER WORK SHOWN ON DRAWING AND INDICATED IN SPECIFICATIONS.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND APPROVALS AND SHALL PAY ALL ASSOCIATED COSTS AND FEES.
- C. VERIFY ALL EXISTING CONDITIONS IN THE FIELD AND INCLUDE IN THE BID PRICE ALL WORK REQUIRED TO
- ACCOMMODATE THE EXISTING INSTALLATION.
- D. ELECTRICAL CONNECTIONS TO EQUIPMENT, MOTORS, ETC FURNISHED BY THE OWNER AND/OR OTHER TRADES.
- 3. SUBMITTALS
- A. SUBMIT THE FOLLOWING INFORMATION AS APPLICABLE AND AS REQUIRED FOR ALL WORK SPECIFIED UNDER THIS DIVISION:
- a. MANUFACTURERS' PRODUCT DATA SHEETS AND SAMPLES WHERE REQUIRED.
- b. SHOP DRAWINGS INCLUDING DIMENSIONED EQUIPMENT LAYOUTS. POINT-TO-POINT WIRING DIAGRAMS AND SEQUENCES OF OPERATION.
- REPRODUCIBLE DRAWINGS, PDF, OR AUTOCAD FILES.

PERMITTED WHERE SUBMITTED AND APPROVED IN WRITING.

- OPERATION AND MAINTENANCE MANUALS.
- CERTIFIED FACTORY AND FIELD TEST REPORTS. MANUFACTURERS' CERTIFICATIONS, WARRANTIES AND SPARE PARTS.
- B. SUBSTITUTIONS TO SPECIFIED ITEMS MUST COMPLY WITH ALL SPECIFICATION REQUIREMENTS AND WILL ONLY BE
- 4. AS-BUILT DRAWINGS AND MAINTENANCE MANUALS
 - CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS INDICATING ANY DEVIATION FROM THE ORIGINAL ELECTRICAL DESIGN. THE REVISED DRAWING SHALL BE STAMPED "AS-BUILT" WITH THE DATE AND CONTRACTOR'S SIGNATURE. ONE (1) SET OF PRINTS AND A DIGITAL COPY CONTAINING AUTOCAD FILES SHALL BE DELIVERED TO THE ENGINEER BEFORE FINAL PAYMENT IS MADE. AFTER REVIEW AND APPROVAL OF AS-BUILT CONTRACTOR SHALL DELIVER COMPACT DISK TO THE OWNER. CONTRACTOR SHALL PROVIDE THREE (3) PRINTS AND A DIGITAL COPY OF AS-BUILT DRAWINGS TO THE BUILDING MANAGER UPON COMPLETION OF WORK.
- B. FURNISH TO THE ARCHITECT THREE (3) BOUND AND INDEXED COPIES OF OPERATIONS AND MAINTENANCE DATA MANUALS FOR THE INSTALLATION. THE MANUAL SHALL PROVIDE COMPREHENSIVE DETAILED INFORMATION ON THE APPROVED INSTALLATION, OPERATION AND USE, MAINTENANCE AND PARTS LIST.
- 5. QUALITY ASSURANCE
- A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF ALL APPLICABLE CODES AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, INCLUDING THE NEW YORK STATE BUILDING CODE AND NATIONAL ELECTRICAL CODE, OSHA AND BUILDING MANAGEMENT. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE BUILDING STANDARDS AND THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY.
- B. MATERIALS, EQUIPMENT AND INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE APPLICABLE REFERENCE STANDARDS PUBLISHED BY THE NFPA, UL, ANSI, IEEE AND NEMA.
- C. THE CONTRACTOR SHALL HAVE COMPLETED AT LEAST TWO PROJECTS OF SIZE AND COMPLEXITY SIMILAR TO THOSE REQUIRED UNDER THIS CONTRACT. ALL WORKMEN SHALL BE SKILLED IN THEIR RESPECTIVE TRADE.
- D. ALL WORK SHALL BE WARRANTED IN WRITING TO BE FREE FROM DEFECTS IN MATERIALS AND/OR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. WARRANTY SHALL INCLUDE ALL COSTS OF PARTS, LABOR, TRAVEL AND LIVING EXPENSES REQUIRED TO REPAIR OR REPLACE DEFECTIVE ITEMS.
- 6. INSPECTION
- A. ALL STAGES OF THE INSTALLATION WILL BE INSPECTED BY THE OWNER AND/OR OWNERS REPRESENTATIVE FOR COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DRAWINGS AND SPECIFICATIONS. ANY PORTION OF THE CONSTRUCTION NOT MEETING THOSE REQUIREMENTS TO THE SATISFACTION OF THE ENGINEER SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- B. PROVIDE PROPER EQUIPMENT AND REASONABLE ASSISTANCE AS THE OWNER AND/OR OWNERS REPRESENTATIVE MAY REQUIRE TO FACILITATE ACCESS AND INSPECTION AT THE CONSTRUCTION SITE.
- 7. BASIC MATERIAL AND METHODS
- A. COORDINATE ALL WORK WITH THE WORK OF OTHER TRADES PRIOR TO INSTALLATION, ASSIST IN THE PREPARATION OF COORDINATION DRAWINGS AS REQUIRED BY THE GENERAL CONDITIONS.
- B. ALL SHUTDOWN OF BUILDING POWER, FIRE ALARM AND SIGNAL SYSTEMS SHALL BE COORDINATED WITH BUILDING OPERATING PERSONNEL. WORK TO ACCOMMODATE OFF-HOUR SHUTDOWNS SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
- C. CUT AND PATCH NON STRUCTURAL SURFACES AS REQUIRED. REPAIRS SHALL MATCH ORIGINAL FINISH, PENETRATIONS OF FIRE RATED PARTITIONS SHALL BE SEALED WITH APPROVED MATERIAL TO PROVIDE THE SAME RATING AS THE PARTITION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED PARTITIONS.
- D. PROVIDE EXPANSION FITTINGS WHERE RACEWAYS CROSS BUILDING EXPANSION JOINTS.
- E. EQUIPMENT, DEVICES AND ENCLOSURES SHALL BE RATED NEMA 1 FOR INTERIOR LOCATIONS, NEMA 3R FOR DAMP LOCATIONS AND NEMA 4 FOR WET LOCATIONS.
- F. PROVIDE 4" HIGH SEALED CONCRETE HOUSEKEEPING PADS BELOW ALL FLOOR MOUNTED EQUIPMENT AND AROUND ALL CONDUITS PENETRATING FLOORS OF MECHANICAL EQUIPMENT ROOMS.
- 8. <u>DELIVERY, STORAGE AND HANDLING</u>
- A. ALL EQUIPMENT SHALL BE DELIVERED IN MANUFACTURER'S ORIGINAL PROTECTIVE PACKAGING AND STORED IN A CLEAN, DRY PLACE PROTECTED FROM WEATHER, FUMES, WATER, DUST AND PHYSICAL DAMAGE. TOUCH UP DAMAGED FINISHES TO MATCH THE ORIGINAL FINISH.
- 9. <u>SUMMARY</u>
- A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR COMPLETE INSTALLATION OF ALL WORK INDICATED ON THE DRAWINGS OR SPECIFIED HEREIN.
- B. OBTAIN ALL PERMITS AND APPROVALS REQUIRED BY AUTHORITIES HAVING JURISDICTION AND PAY THE ASSOCIATED PRINTING AND FILING COSTS.
- C. VERIFY EXISTING CONDITIONS IN FIELD AND INCLUDE IN THE BID PRICE ALL WORK REQUIRED TO ACCOMMODATE THE EXISTING INSTALLATION.
- D. PROVIDE TEMPORARY LIGHT AND POWER SYSTEM (AS PART OF THE CONTRACT) ADEQUATE FOR THE REQUIREMENTS OF ALL TRADES DURING CONSTRUCTION. TEMPORARY SYSTEM SHALL BE DISCONNECTED AND REMOVED WHEN PERMANENT SERVICE IS IN OPERATION.

- E. THE CONTRACTOR FOR ELECTRICAL WORK SHALL FURNISH AND A SYSTEM OF TEMPORARY LIGHTING TO ILLUMINATE THE ENTIRE ADJACENT TO THE WORK. THE TEMPORARY LIGHTING SYSTEM SH TEMPORARY LIGHTING STRINGS. THE STRINGS SHALL CONSIST O SOCKETS OF 23 WITH SCREW IN COMPACT FLUORESCENT LAMPS WITH HOLE SIZED TO SUPPORT THE LAMP SOCKET AND CABLE AN TYPE LAMP
- F. RECEPTACLES FOR TEMPORARY POWER SHALL BE PROVIDED IN ALL TEMPORARY RECEPTACLES SHALL BE GROUND- FAULT INTER FAULT CIRCUIT INTERRUPTING TYPE BREAKERS. RECEPTACLES WITH TREATED HUBS AND SHALL BE PROVIDED WITH INUSE WET EXISTING BUILDING) FOR TEMPORARY RECEPTACLES SHALL BE T CONDUCTOR, A MAXIMUM OF THREE (3) DUPLEX RECEPTACLES S CIRCUIT

10. <u>RACEWAYS</u>

COMPRESSION TYPE.

- A. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL CONFORM TO U B. ELECTRICAL METALLIC TUBING (EMT) SHALL CONFORM TO UL 797
- C. FLEXIBLE METALLIC CONDUIT SHALL CONFORM TO UL 1. LIQUID T UL 360.
- D. ALL CONDUIT FITTINGS AND CONNECTORS SHALL BE STEEL WITH MALLEABLE IRON ARE NOT ACCEPTABLE. BUSHINGS SHALL BE PF LARGER THAN 1" SHALL BE GROUNDING TYPE. PVC BUSHINGS MA CONDUITS TERMINATING AT PANELBOARDS.
- E. MINIMUM RACEWAY SIZE SHALL BE 3/4". RACEWAYS SHALL BE RU RACEWAYS SHALL NOT BE RUN HORIZONTALLY BELOW 8'-0" AFF II FURNISHED WITH A 200LB TEST NYLON DRAG LINE.
- F. ALL WIRING BETWEEN JUNCTION BOXES AND FOR CIRCUIT HOME BRANCH CIRCUIT AND THE PANELBOARD SHALL BE RUN IN EMT OF
- G. RACEWAY UTILIZATION SHALL BE AS FOLLOWS: a. RIGID GALVANIZED STEEL (RGS) - IN CONCRETE SLABS; EXP
- MECHANICAL EQUIPMENT ROOMS; FIRE ALARM SYSTEMS. ELECTRICAL METALLIC TUBING (EMT) - INTERIOR CONCEALE
- d. EXPOSED LOCATIONS; EXPOSED IN MECHANICAL ROOMS AB e. INTERIOR COMMUNICATIONS WIRING.
- f. FLEXIBLE METALLIC CONDUIT FINAL CONNECTIONS TO TRAI FIXTURES IN INTERIOR LOCATIONS (MIN. LENGTH 18", MAXIMI ENGINEER. g. LIQUID TIGHT FLEXIBLE CONDUIT - FINAL CONNECTIONS TO I
- MECHANICAL EQUIPMENT.
- METAL CLAD CABLE (MC) FINAL CONNECTIONS ONLY FROM BOXES ABOVE CEILINGS TO RECEPTACLES (MAXIMUM LENG k. NOT TO BE USED FOR HOMERUNS OR FEEDERS TO MECHAN
- H. ALL CONDUIT AND TUBING SHALL BE CUT SQUARE AND REAMED
- I. CONDUIT AND TUBING RUNS SHALL BE MECHANICALLY AND ELEC ALL OUTLETS AND EQUIPMENT. CONDUIT SHALL ENTER AND BE S PULLBOX OR OUTLET BOX BY MEANS OF LOCKNUTS ON THE OUTS INSIDE. IN TUBING OR FLEXIBLE METAL CONDUIT THE ONE COMPI ALL LOCKNUTS SHALL BE THE BONDING TYPE WITH SHARP EDGE ENCLOSURE AND SHALL BE INSTALLED IN A MANNER THAT WILL INSTALLATION. LOCKNUTS AND BUSHINGS ARE NOT REQUIRED W CONNECTIONS.
- J. VERTICAL RUNS OF CONDUIT OR TUBING TERMINATING IN THE BO LOCATIONS, SHALL BE PROTECTED FROM THE ENTRANCE OF FOR CONDUCTORS.
- K. UNLESS OTHERWISE SPECIFIED. ALL CONDUIT AND TUBING SHALI CONDULLAND TUBING SHALL BE RUN IN HUNG CEILINGS AND FU RUN EXPOSED IT SHALL BE SECURELY SUPPORTED WITH ZINC CO APPROVED MEANS. ALL CONDUITS SHALL BE SUPPORTED FROM S
- L. EVERY CONDUIT SYSTEM SHALL BE INSTALLED COMPLETE BEFOR LUBRICANTS, WHEN UTILIZED, SHALL BE IN ACCORDANCE WITH T LABORATORIES, INC., APPLICABLE TO THE SPECIFIC CONDUCTOR
- M. WHERE REQUIRED BY THE ENGINEER, EXTRA DEEP OR EXTRA SH THE INSTALLATION OF THE CONDUIT SYSTEM.
- 12. <u>BOXES</u>
- A. OUTLET. PULL AND JUNCTION BOXES SHALL BE FABRICATED FRO OS1. BOXES FOR INTERIOR LOCATIONS SHALL BE CODE GAUGE, ROOMS SHALL BE CAST STEEL WITH GASKETED COVERS.
- B. BOXES SHALL CONTAIN SUITABLE KNOCKOUTS. BARRIERS SHALL SEPARATE SWITCHES FOR 277 VOLT CIRCUITS ON DIFFERENT PH
- C. BOXES SHALL BE SIZED AS REQUIRED BY CODE FOR NUMBER AND NOTED TO BE LARGER, THE MINIMUM BOX SHALL BE 4" SQUARE B DIVIDED INTO MULTIPLE SECTIONS.
- D. WIREWAYS AND AUXILIARY GUTTERS SHALL BE TWO-PIECE STEE COVERS SHALL BE COMBINATION HINGED AND SCREW-ON TYPE. KNOCKOUTS FOR CONDUIT ENTRY. WIREWAYS SHALL BE MANUFA PROVIDE ALL END PIECES, CONNECTORS AND REQUIRED ACCESS
- 13. <u>FASTENERS</u>
 - A. PROVIDE INSERTS, EXPANSION SHIELD LUGS, ANCHORS, BOLTS OF FASTENING DEVICES REQUIRED TO FASTEN PANELS OR OTHE UNLESS OTHERWISE SPECIFIED HEREIN OR SHOWN ON THE CON HOT-DIPPED GALVANIZED, OF SIZES AND TYPES RECOMMENDED E APPROVED BY THE ENGINEER.
- 14. WIRES, CABLES, SPLICES AND TERMINATIONS
- A. POWER AND CONTROL WIRING SHALL BE COPPER, MINIMUM 98% RATED 600 VOLTS. MINIMUM WIRE SIZE SHALL BE #12 AWG. COND AND SMALLER AND STRANDED FOR WIRE SIZES #8 AWG AND LARC
- B. METAL CLAD CABLE SHALL BE HOSPITAL GRADE, 90°C RATED COI A SEPARATE FULL-SIZED GREEN INSULATED GROUND COPPER CO ALUMINUM GROUND CONDUCTOR IN ACCORDANCE WITH UL 4. JAC
- C. CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:
- PHAS





- D. CONDUCTOR SIZES SHALL BE INCREASED WHERE REQUIRED BY (VOLTAGE DROP AND HIGH AMBIENT TEMPERATURE.
- E. COMMUNICATIONS CABLING RUN EXPOSED IN AIR HANDLING PLE

CONNECT TO A DESIGNATED CIRCUIT BREAKER PANEL,	1	WIRE SIZES #8 AWG AND LARGER SHALL BE HYDRAULIC COMPRESSION TYPE WITH PRE-MOLDED COVER AND TAPE.			LIGHTING REC
AREA WHERE WORK IS BEING PERFORMED AND POINT HALL CONSIST OF FACTORY MANUFACTURED OF A HEAVY DUTY CABLE WITH INTEGRAL MOLDED LIGHT S. THE LIGHT SOCKETS SHALL HAVE A MOLDED FLANGE	G	5. TERMINATIONS OF POWER AND CONTROL WIRING SHALL BE COMPRESSION TYPE, WITH TWO-HOLE LUGS FOR WIRE SIZES #8 AWG AND LARGER. MECHANICAL LUGS MAY ONLY BE UTILIZED FOR TERMINATIONS AT BRANCH CIRCUIT PANELBOARDS.		I. J.	ALL REQUIRE PROVIDE 10' (
ND SHALL BE EQUIPPED WITH A STELE WIRE LOCKING	15. <u>V</u>	VIRING DEVICES		K.	WHERE MULT
WORK AREAS AT THE MAXIMUM INTERVAL OF 25 FEET. RRUPTING TYPE. OR SHALL BE PROTECTED BY GROUND	Α	WIRING DEVICES SHALL BE MANUFACTURED BY HUBBELL, LEVITON, PASS & SEYMOUR OR APPROVED EQUAL.			
SHALL BE MOUNTED IN CAST ALUMINUM OUTLET BOXES LOCATION COVERS. TEMPORARY WIRING (WITHIN THE	В	WIRING DEVICES SHALL BE HOSPITAL GRADE WITH NEMA CONFIGURATIONS AS INDICATED ON THE DRAWINGS.	19.	<u>GR(</u>	DUNDING
TYPE MC CABLE WITH AN INTEGRAL INSULATED GROUND SHALL BE CONNECTED TO A 20 AMPERE, 120 VOLT	C	C. EMERGENCY RECEPTACLES SHALL MATCH THE COLOR THROUGH THE FACILITY OR OTHERWISE BE RED, NORMAL RECEPTACLES COLOR SHALL SHALL BE AS SELECTED BY THE ARCHITECT. RECEPTACLES SHALL BE TAMPER RESISTANT IN PEDIATRIC CARE, PSYCHIATRIC OR OTHER AREAS SHOWN ON		A.	THE DISTRIBU INSULATED GI CIRCUITS AND
	U	DRAWINGS.		В.	METAL RACEV GROUNDED IN
	E	. MODEL HUBBELL INC. HBL 8300 SG 00SGA, LEVITON TBR 20, PASS & SEYMOUR/LEGRAND TR 63H			BE INSTALLED
IL 6. FITTINGS SHALL BE THREADED.	F	. PILOT LIGHT SWITCHES SHALL BE FURNISHED WITH LIGHTED HANDLE OR SEPARATE GLASS JEWEL INDICATING LIGHT WIRED TO BE ILLUMINATED WHEN THE SWITCH IS ON.	20.	SPL	ICES AND TERM
7. FITTINGS SHALL BE GLAND STEEL AND RING	G	6. FACEPLATES SHALL BE NON-MAGNETIC STAINLESS STEEL WITH BRUSHED FINISH UNLESS SPECIFIED BY THE ARCHITECT. EMERGENCY CIRCUIT RECEPTACLE FACEPLATES SHALL BE RED AND SHALL IDENTIFIED THE PANEL AND CIRCUIT NUMBER SUPPLYING THEM. FACEPLATES SHALL BE FURNISHED FOR ALL COMMUNICATIONS OUTLETS AND		A.	NO SPLICES C TERMINAL, SF
TIGHT FLEXIBLE METAL CONDUIT SHALL CONFORM TO	L	SHALL BE CONFIGURED TO SUIT THE SYSTEM SUPPLIERS' REQUIREMENTS.		В.	ALL MATERIAL
H INSULATED THROATS. DIE-FORMED ZINC OR PROVIDED AT ALL CONDUIT TERMINATIONS. BUSHINGS AY BE UTILIZED ONLY FOR 3/4" BRANCH CIRCUIT	I.	ONE BOX. WIRING DEVICES SHALL BE DECORATOR STYLE WITH NEMA CONFIGURATIONS AS INDICATED ON THE DRAWINGS. COLOR			FURNISHED W
UN PARALLEL TO BUILDING STRUCTURAL LINES. IN PARTITIONS. ALL EMPTY RACEWAYS SHALL BE	J	OF DEVICES SHALL BE AS SELECTED BY THE ARCHITECT. WIRING DEVICES SHALL BE MANUFACTURED BY ARROW-HART, HUBBELL, LEVITON, PASS & SEYMOUR OR APPROVED EQUAL. . WALL MOUNTED DIMMER SWITCHES SHALL BE BY COOPER OR APPROVED EQUAL. MULTIPLE SWITCHES SHALL BE		C. D.	ALL SPLICES I
		ALIGNED AND BUTTED TOGETHER WITH MULTI-GANG OUTLET BOX.			TO TWISTED O
ERUNS BETWEEN FIRST OUTLET SERVED BY THE DR RGS AS REQUIRED.	K	ALL DEVICES SHALL BE MOUNTED AT LOCATIONS AND HEIGHTS AS INDICATED ON ARCHITECTURAL DRAWINGS.		-	PERMITTED A
	L	BEHIND COMMON FACEPLATE.		E.	PRE-MOLDED
ED AND	16. <u>B</u>	RANCH CIRCUIT PANELBOARDS			
BOVE 8'-0" AFF;	Д	BRANCH CIRCUIT PANELBOARDS SHALL BE 480/277V AND/OR 208/120V, 3-PHASE, 4-WIRE CONFIGURATION WITH COPPER BUS BARS, NEUTRAL BUS AND SEPARATE GROUND BUS BONDED TO PANEL ENCLOSURE. PROVIDE ISOLATED GROUND	21.	REN	10VALS
ANSFORMERS (MAXIMUM LENGTH 3'-0") AND LIGHTING //UM LENGTH 6'-0"); WHERE ACCEPTABLE TO THE MOTORS AND	B	BUS WHERE INDICATED ON DRAWINGS. CABLE LUGS SHALL BE MECHANICAL TYPE. PANELBOARDS SHALL BE MANUFACTURED BY SCHNEIDER ELECTRIC/SQUARE D, GENERAL ELECTRIC, SIEMENS, OR CUTLER-HAMMER.		A.	NOTES AND G THE CONTRAC WORK REQUI
	_	INTERRUPTING RATINGS SHALL BE 22,000 AIC FOR 208/120V AND 65,000 AIC FOR 480/277V. CIRCUIT BREAKERS FOR UNSWITCHED LIGHTING CIRCUITS SHALL BE RATED FOR SWITCHING DUTY. MAIN CIRCUIT BREAKERS SHALL BE		B.	WHERE PORT
STH 20'-0"). NICAL EQUIPMENT		MOUNTED SEPARATELY FROM BRANCH BREAKERS AT TOP OR BOTTOM.			SHALL BE REC AFFECTED BR
AT THE ENDS.	Ĺ	Description: Construction and Shall be Galvanized Code Gauge Steel. TRIMS Shall be Surface Type in UNFINISHED SPACES AND FLUSH TYPE IN FINISHED SPACES, WITH ANSI 61 GRAY ENAMEL FINISH. DOORS SHALL BE DOOR IN DOOR TYPE CONSTRUCTION AND SHALL BE LOCKABLE AND ALL LOCKS SHALL BE KEYED ALIKE. FURNISH ONE USE CODE SACURANT.		C.	ALL WORK RE RECONNECTE
SECURELY CONTINUOUS FROM SERVICE STARTING TO SECURELY CONNECTED TO A CABINET, JUNCTION BOX, SIDE AND INSIDE AND AN INSULATED BUSHING ON THE	D	N PANELS SHALL HAVE A MINIMUM OF 4" GUTTER SPACE ON BOTH SIDES.		D.	THE REMOVA
PRESSION LOCKNUT SHALL BE MADE WRENCH-TIGHT.	E	. FURNISH AND INSTALL TYPEWRITTEN DIRECTORIES FOR EACH PANELBOARD, NEW AND EXISTING, INDICATING DEVICES		E.	IN THE PROCE
ASSURE A LOCKING AND ELECTRICALLY CONTINUOUS WHERE CONDUITS ARE SCREWED INTO TAPPED	F	SERVED. PANELS NOT MOUNTED ON STRUCTURAL WALLS SHALL BE SUPPORTED FROM THE FLOOR INDEPENDENTLY OF WALL CONSTRUCTION BUT LATERALLY SECURED TO WALL FLUSH MOUNTED PANEL BOARDS SHALL BE PROVIDED WITH (3) 1"			MATERIALS, T SURFACES AN MOLDINGS, ST ARCHITECT T
OTTOMS OF WALL BOXES OR CABINETS, OR SIMILAR REIGN MATERIAL PRIOR TO THE INSTALLATION OF	G	EMPTY CONDUITS TERMINATED ABOVE THE FINISHED CEILING.		F.	BE PAID BY TH
L BE INSTALLED CONCEALED. IN GENERAL, ALL		PANELBOARD AND WALL.			FROM THE BU
RRED SPACES WHERE THEY EXIST. WHERE CONDUIT IS OATED MALLEABLE IRON CONDUIT STRAPS OR OTHER	17. <u>L</u>	IGHTING FIXTURES AND EQUIPMENT	22.	<u>IDEI</u>	NTIFICATION OF
I STRUCTURAL MEMBERS. RE ANY CONDUCTORS ARE DRAWN IN. WIRE PULLING "HE REQUIREMENTS OF UNDERWRITERS"	A	LIGHTING FIXTURES SHALL BE SPECIFICATION GRADE AND FURNISHED COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE. FIXTURES SPECIFIED IN THE LIGHTING FIXTURE SCHEDULE ESTABLISH THE PERFORMANCE REQUIREMENTS. SUBSTITUTIONS MUST MEET OR EXCEED THE PERFORMANCE OF THE SPECIFIED FIXTURE AND BE APPROVED BY THE PROJECT ENGINEER AND ARCHITECT		A.	ALL PANELBO EQUIPMENT D INCOMING FEI ATTACHED BY
HALLOW OUTLET BOXES SHALL BE USED TO FACILITATE	В	 LIGHTING FIXTURES SHALL BE MANUFACTURED IN ACCORDANCE WITH NYS ELECTRICAL CODE, AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), AND ANY APPLICABLE LOCAL REQUIREMENTS. ALL FIXTURES SHALL BE U.L. LISTED FOR THE INSTALLED AMBIENT CONDITIONS. 		В.	FACEPLATES WITH THE NAM LOCATIONS A
DM STEEL AND CONFORM TO UL 50, UL 514 AND NEMA	C	LIGHTING FIXTURES SHALL BE LED TYPE, WITH A MINIMUM OPERATIONAL LIFE OF 50,000 HOURS AND A LUMEN OUTPUT DEPRECIATION OF NO MORE THAN 20% OVER THE OPERATIONAL LIFE. CORRELATED COLOR TEMPERATURE (CCT) SHALL BE CONSISTENT ACROSS ALL FIXTURES PROVIDED FOR THE PROJECT, AS SPECIFICED BY THE ARCHITECT, OR 3500K. THE COLOR DEDITION WIDEY (201) 201444 DE 20 OPERATER.		C.	EMPTY CONDI OPPOSITE EN
GALVANIZED SHEET STEEL. BOXES FOR MECHANICAL	D	LED DRIVERS SHALL HAVE AN INPUT VOLTAGE OF 120-277V, BE A UL LISTED COMPONENT COMPATIBLE WITH THE FIXTURE SERVED,		D.	BRIGHT ORAN
L BE FURNISHED AS REQUIRED BY CODE AND TO IASES.		AND PROVIDE 1% LOGARITHMIC DIMMING CONTROLLED BY A 0-10V DIMMING SIGNAL WITHOUT PERCEIVABLE FLICKER OVER THE FULL OUTPUT RANGE. LED DRIVER SHALL BE MANUFACTURED BY ELDOLED OR APPROVED EQUAL		E.	OF BRADY B-5
ID GAUGE OF CONDUCTORS THEREIN, EXCEPT WHERE 3Y 1-1/2" DEEP. COVERS GREATER THAN 50LB SHALL BE	E	. CONTRACTOR SHALL ENSURE COMPATIBILITY BETWEEN FIXTURE TRIMS AND CEILING SYSTEMS. FIXTURES RECESSED IN ACCESSIBLE CEILINGS SHALL BE FURNISHED WITH SEISMIC RESTRAINTS. FIXTURES RECESSED IN NON-ACCESSIBLE CEILINGS SHALL BE DESIGNED FOR BALLAST OR DRIVER ACCESS THROUGH THE FIXTURE OPENING.		F.	ALL JUNCTION COMMUNICAT CLEARLY MAR BOID, INDELIE
EL CONSTRUCTION WITH ANSI 61 GRAY ENAMEL FINISH. HOUSINGS SHALL HAVE REGULARLY SPACED	F	. EMERGENCY LED DRIVERS SHALL BE BODINE BSL SERIES OR APPROVED EQUAL.		G.	EMERGENCY CONDUIT RUN
ACTURED BY SQUARE D OR APPROVED EQUAL. SORIES.		EXIT SIGN SHALL BE UL924 LISTED, UNIVERSAL INPUT VOLTAGE 120-277V, WITH MAINTENANCE FREE, HIGH TEMPERATURE NICKEL-CADMIUM BATTERIES WITH SOLID-STATE CHARGING AND POWER SWITCHING TO PROVIDE A MINIMUM OF 90 MINUTES OF			OF LENGTH, A
		EMERGENCY ILLUMINATION. EXIT SIGN SHALL HAVE AN INTEGRAL COMBINATION TEST SWITCH/POWER INDICATOR LIGHT. CONTRACTOR SHALL COORDINATE MOUNTING DETAILS AND ARROW INDICATORS WITH ARCHITECTURAL LIGHTING PLAN.	23.	<u>INS</u>	FALLATION OF L
WITH NUTS AND WASHERS, SHIMS OR ANY OTHER TYPE ER EQUIPMENT TO FLOORS, WALLS OR CEILINGS. ITRACT DRAWINGS, ALL FASTENERS SHALL BE	18. <u>L</u>	IGHTING CONTROLS		A.	ARCHITECTUR FIXTURES PRI
BY THE EQUIPMENT MANUFACTURER AND AS	А	SENSORS AND SWITCH CONTROL SYSTEMS SHALL BE MANUFACTURED BY WATTSTOPPER, SENSOR SWITCH OR APPROVED EQUAL. SYSTEM SHALL CONSIST OF THE FOLLOWING:		B.	RECESSED FI
		s. CEILING MOUNTED ROOM CONTROLLER t. WALL MOUNTED SWITCH		C.	PLASTER FOR HANGERS OR
CONDUCTIVITY, WITH TYPE THHN/THWN INSULATION DUCTORS SHALL BE SOLID FOR WIRE SIZED #10 AWG RGER.		 U. EMERGENCY LIGHTING CONTROL UNIT v. WALL MOUNTED OCCUPANCY SENSOR SWITCH w. LV INPUT LMIN 104 x. ALL ASSOCIATED WIRING AS PER MANUEACTURERS SPECIFICATIONS 			OR OTHER PC SHALL BE SUF SHALL BE OF
DE TYPE HCF WITH TWO (2) GROUNDING CONDUCTORS; CONDUCTOR AND AN ARMOR BONDED FULL-SIZED ACKET SHALL BE GALVANIZED STEEL ARMOR.	В	 SENSORS SHALL UTILIZE A COMBINATION OF PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY TO ACTIVATE AND/OR MAINTAIN LIGHTING. SENSORS SHALL INCLUDE ADJUSTMENTS FOR COVERAGE PATTERN AND SENSITIVITY, TIME DELAY TO OFE (1 MIN - 20 MIN) WITH LED DISPLAYS 		D.	HANGING OF I CODE OF THE
	C	 BEFORE THE END USERS MOVE-IN DATE AND TURN OVER OF THE PROJECT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE SENSITIVITY, CALIBRATION AND ADJUSTMENTS OF ALL SENSORS IN THE FIELD IN CORRELATION WITH LICHTING REQUIREMENTS A USAGE, AND THE OWNER 		-	POUNDS MAY SUPPORTED F
	Г	LIGHTING REQUIREMENTS, USAGE, AND THE OWNER.		E. F.	SPLICES SHAL
	E	PROVIDE 10' OF LOW VOLTAGE CABLE SLACK BETWEEN SENSOR AND SWITCHPACK.			SHALL BE PRO
CODE AND/OR THE ENGINEER TO COMPENSATE FOR	F	. WHERE MULTIPLE ZONES EXIST IN A PARTICULAR SPACE, PROVIDE SEPARATE SWITCHPACK FOR EACH LIGHTING ZONE IN THAT AREA.	24.	<u>CUT</u>	TING AND PATC
NUMS SHALL BE TYPE CMP PLENUM RATED.	G	B. SENSORS SHALL UTILIZE A COMBINATION OF PASSIVE INFRARED AND ULTRASONIC TECHNOLOGY TO ACTIVATE AND/OR MAINTAIN LIGHTING. SENSORS SHALL INCLUDE ADJUSTMENTS FOR COVERAGE PATTERN AND SENSITIVITY, TIME DELAY TO OFE (1 MIN - 20 MIN) WITH LED DISPLAYS		A.	ALL CUTTING CONTRACTOR
	н	BEFORE THE ENDUSER MOVE-IN DATE AND TURN OVER OF THE PROJECT. THE ELECTRICAL CONTRACTOR SHALL		ט.	HOLES ARE TO

OVOLUMENTE THE DEMONSTRATE, OREDINATION AND ADJUSTICENTS OF ALL DEMONSTRATE THE FIELD IN CONTRELATION V REQUIREMENTS, USAGE, AND THE OWNER.

IRED POWER PACKS ARE TO BE PROVIDED WITH TRANSFORMERS AND RELAYS AS REQUIRED.

10' OF LOW VOLTAGE CABLE SLACK BETWEEN SENSOR AND SWITCHPACK.

IULTIPLE ZONE EXIST IN A PARTICULAR ROOM, PROVIDE SEPARATE SWITCHPACK FOR EACH LIGHTING ZONE IN

RIBUTION SYSTEM SHALL BE COMPLETELY AND PROPERLY GROUNDED USING APPROVED FITTINGS. SEPARATE D GROUND CONDUCTORS SHALL BE RUN WITH ALL FEEDERS WHERE INDICATED, RECEPTACLE BRANCH AND FLEXIBLE CONNECTIONS TO LIGHTING FIXTURES AND EQUIPMENT.

ACEWAYS. METAL ENCLOSURES OF ELECTRICAL DEVICES AND OTHER EQUIPMENT SHALL BE COMPLETELY ED IN AN APPROVED MANNER. PROPER HARDWARE REQUIRED FOR A COMPLETE GROUNDING SYSTEM SHALL LLED BY THE CONTRACTOR.

ERMINATIONS

ES OR JOINTS WILL BE PERMITTED IN EITHER FEEDER OR BRANCHES EXCEPT AT OUTLETS OR ACCESSIBLE , SPLICE OR JUNCTION BOXES.

ERIALS REQUIRED FOR MAKING SPLICES AND/OR TERMINATIONS SHALL BE SUPPLIED IN COMPLETE KITS NOT HAN 6 MONTHS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ENSURING THAT ALL MATERIALS ED WILL NOT ADVERSELY AFFECT THE PHYSICAL OR ELECTRICAL PROPERTIES OF OTHER MATERIALS ED OR OF THE WIRE OR CABLE ITSELF.

THE CONTRACTOR MAKES CONNECTIONS TO EXISTING WIRES, HE SHALL OPEN AND DISCONNECT THE EXISTING FROM SUCH WIRES AND INSTALL NEW SPLICES TO INCLUDE THE EXISTING WIRES AS REQUIRED.

CES FOR WIRE SIZES #10 AWG AND SMALLER SHALL BE MADE WITH INSULATED SPRING CONNECTOR APPLIED ED CONDUCTORS. TWO HALF LAPPED LAYERS OF VINYL TAPE EXTENDING A DISTANCE OF NOT LESS THAN FROM THE CONNECTOR SHALL BE APPLIED. SPLICES OTHER THAN THE AFOREMENTIONED WILL BE ED AT THE DISCRETION OF THE ENGINEER.

CES FOR WIRE SIZES #8 AWG AND LARGER SHALL BE MADE WITH COMPRESSION TYPE CONNECTORS WITH DED COVER OVER WHICH TWO HALF LAPPED LAYERS OF VINYL TAPE EXTENDING A DISTANCE OF NOT LESS (1) INCH FROM THE CONNECTOR SHALL BE APPLIED.

ND GRAPHIC REPRESENTATIONS ON THE DRAWINGS SHALL NOT LIMIT THE EXTENT OF REMOVALS REQUIRED. TRACTOR SHALL VISIT THE SITE AND CAREFULLY EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL QUIRED TO ACHIEVE THE FINAL DESIGN INTENT AS REQUIRED BY THE CONTRACT DOCUMENTS. THE EXTENT EMOVAL WORK SHALL BE COORDINATED WITH THE ARCHITECT.

ORTIONS OF AN EXISTING BRANCH CIRCUIT ARE REMOVED, WIRING TO REMAIN DEVICES ON THE CIRCUIT RECONNECTED OR MODIFIED IN AN APPROVED MANNER AS REQUIRED TO MAINTAIN CONTINUITY OF THE D BRANCH CIRCUIT AND OPERATION OF THE REMAINING DEVICES.

REQUIRED TO REMAIN IN SERVICE BUT INTERFERING WITH THE ALTERATION SHALL BE RELOCATED AND ECTED USING MATERIALS AND STANDARDS OF THIS CONTRACT.

IOVAL OF ALL TELEPHONE AND DATA DEVICES AND ASSOCIATED CABLE SHALL BE COORDINATED WITH THE RIATE BUILDING OPERATING PERSONNEL.

ROCESS OF REMOVING WIRING DEVICES, LIGHTING FIXTURES AND OTHER ELECTRICAL EQUIPMENT AND LS. THIS CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO ARCHITECTURAL S AND MATERIALS WHICH ARE TO REMAIN, INCLUDING WALLS, FLOORS, CEILINGS, WINDOWS, DOORS, S, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR OR REPLACE ANY MATERIAL DEEMED BY THE CT TO HAVE BEEN UNDULY DAMAGED BY THIS CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BY THIS CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

TING UNUSED CONDUIT AND WIRING SHALL BE DROPPED TO THE FLOOR BY THE ELECTRICIAN FOR REMOVAL E BUILDING BY DEMOLITION OR GENERAL CONTRACTOR.

OF WORK

ELBOARDS, EQUIPMENT AND CABINETS SPECIFIED HEREIN SHALL BE CLEARLY IDENTIFIED WITH THE ENT DESIGNATION, VOLTAGE AND AMPERE RATING, FUSE RATING, EQUIPMENT SERVED AND ORIGIN OF THE 3 FEED. IDENTIFICATION SHALL BE WHITE ON BLACK PLASTIC NAMEPLATE WITH X" MINIMUM LETTERING D BY SCREWS.

TES OF SWITCHES FOR EQUIPMENT SUCH AS REMOTE FANS AND MOTORIZED SCREENS SHALL BE IDENTIFIED NAME OF THE DEVICE CONTROLLED. IDENTIFICATION SHALL BE BY INDELIBLE MARKER IN CONCEALED INS AND ADHESIVE LABELS IN EXPOSED LOCATIONS. EMERGENCY DEVICES SHALL BE IDENTIFIED IN RED.

ONDUITS SHALL BE IDENTIFIED WITH TAGS AT BOTH ENDS INDICATING THE LOCATION OF TERMINATION AT THE

COMPARTMENTS FOR FIXTURES OPERATING AT GREATER THAN 120 VOLTS SHALL BE IDENTIFIED WITH A RANGE ADHESIVE WARNING LABEL INDICATING VOLTAGE.

S SHALL BE IDENTIFIED BY PANEL AND CIRCUIT NUMBER AT ALL TERMINATION AND SPLICE POINTS BY THE USE Y B-500 VINYL CLOTH TAPE OR EQUIVALENT METHOD.

TION BOXES SHALL BE IDENTIFIED WITH PANEL AND CIRCUIT NUMBERS OF ALL CIRCUITS OR NAME OF VICATIONS SYSTEM CABLING CONTAINED WITHIN. JUNCTION BOXES IN EXPOSED LOCATIONS SHALL BE MARKED WITH IDENTIFYING LABELS, JUNCTION BOXES IN CONCEALED LOCATIONS SHALL BE MARKED WITH A DELIBLE MARKING PEN. LETTERING SHALL BE NEATLY AND LEGIBLY PRINTED, JUNCTION BOXES ON NCY SERVICE SHALL BE PAINTED RED AND LABELED AS EMERGENCY.

FRUNS FOR BRANCH CIRCUITING AND/OR COMMUNICATIONS CABLING SHALL BE IDENTIFIED AT EVERY 50 FEET TH, AND AT EACH OUTLET AND PULL BOX WITH CIRCUIT NUMBER OR SYSTEM NAME.

OF LIGHTING FIXTURES

NS OF LIGHTING FIXTURES INDICATED ON THE DRAWINGS ARE APPROXIMATE. CONTRACTOR SHALL REFER TO CTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS, MODELS, AND TRIM TYPES OF ALL LIGHTING S PRIOR TO INSTALLATION.

D FIXTURES SHALL BE FURNISHED COMPLETE WITH MOUNTING DEVICES AND ACCESSORIES.

S SHALL BE ATTACHED TO CEILING SUPPORTING MEMBERS, AND SHALL NOT DEPEND UPON LATHING OR FOR ALIGNMENT OR SUPPORT. FIXTURES IN SUSPENDED CEILINGS SHALL BE SUPPORTED BY SADDLE S OR TIE-BARS ATTACHED TO RUNNERS OR BETWEEN CROSSBARS OF CEILING SYSTEMS. MOUNTING SPLINES R POSITIVE MEANS OF MAINTAINING ALIGNMENT AND RIGIDITY SHALL BE PROVIDED. SUPPORTING MEMBERS SURFACE PASSIVATED AND SHALL BE PRIMED OR PAINT DIPPED TO RESIST CORROSION. FASTENING DEVICES E OF A POSITIVE, LOCKING TYPE, AND SHALL NOT REQUIRE THE USE OF SPECIAL TOOLS TO REMOVE. TIE WIRES OT BE USED IN PLACE OF FASTENING DEVICES.

G OF LIGHTING FIXTURES IS TO BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND BUILDING THE STATE OF NEW YORK. LIGHTING FIXTURES WEIGHING UP TO AND INCLUDING 40 POUNDS MAY BE ED FROM THE STEEL "Z" BARS. LIGHTING FIXTURES WEIGHING FROM 41 POUNDS UP TO AND INCLUDING 80 MAY BE SUPPORTED FROM THE PURLINS. LIGHTING FIXTURES WEIGHING OVER 80 POUNDS SHALL BE TED FROM THE BUILDING STRUCTURE AND NOT FROM THE CEILING SUSPENSION SYSTEM.

SHALL NOT BE PERMITTED IN ANY RUN OF LIGHTING FIXTURE HOOKUP WIRE.

FELY MOUNTED OUTLET BOXES AND FLEXIBLE CONDUIT PIGTAIL CONNECTIONS (MAXIMUM LENGTH OF 6'-0") PROVIDED FOR LIGHTING FIXTURES RECESSED IN HUNG CEILINGS WITH ACCESSIBLE TILES. ONE (1) OUTLET SERVE UP TO A MAXIMUM OF FOUR (4) RECESSED LIGHTING FIXTURES.

PATCHING

ING AND PATCHING REQUIRED FOR EQUIPMENT INCLUDED IN THESE SPECIFICATIONS SHALL BE DONE BY THIS

ITRACTOR SHALL NOT DO ANY CUTTING THAT MAY IMPAIR THE STRENGTH OF BUILDING CONSTRUCTION. NO RE TO BE DRILLED INTO ANY STRUCTURAL MEMBERS. CLAMPS OR OTHER APPROVED HOLDING DEVICES ARE

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DRAWING TITLE:

ELECTRICAL SPECIFICATIONS

PROJECT NUMBER	CON # CAD	
DATE 11/19/2024	scale N.T.S.	

DRAWING NUMBER

C. ALL CUTTING OF EXISTING FLOORS, CEILINGS AND WALLS SHALL BE PERFORMED IN A MANNER SO AS TO MINIMIZE DAMAGE TO ADJACENT MATERIALS. PATCHING OF ALL SURFACES SHALL BE PERFORMED IN A MANNER APPROVED BY THE ARCHITECT TO INSURE COMPLETE MATCHING WITH ADJACENT FINISHES AFTER FINAL TREATMENT OF SURFACES.

25. CORE DRILLING

- A. CORED HOLES SHALL BE REVIEWED BY A STRUCTURAL ENGINEER PRIOR TO STARTING.
- B. CORE DRILLING IS PERMITTED DURING OVERTIME HOURS ONLY. COORDINATE ALL DRILLING WITH BUILDING MANAGEMENT PRIOR TO BEGINNING AND DRILLING.
- C. FOR REMOVED OR ABANDONED OUTLETS, THE EXISTING CORED HOLE IN THE CONCRETE SLAB SHALL BE FILLED WITH
- NON-SHRINK GROUT. THE FILLED HOLE SHALL BE ADJUSTED TO GRADE LEVEL. D. CONTRACTOR SHALL USE A BAR LOCATOR TO DETERMINE IF REBARS INTERFERE WITH PROPOSED HOLE. IF THERE IS INTERFERENCE, THE CORE HOLE SHALL BE SHIFTED TO A NEW LOCATION ACCEPTABLE TO THE TENANT, STRUCTURAL ENGINEER AND ARCHITECT.
- E. WHEN AN EXISTING HOLE IS TO BE REACTIVATED, INSPECT TO SEE IF REBARS HAVE BEEN CUT. IF REBARS HAVE BEEN CUT, INFORM THE GENERAL CONTRACTOR TO PROCEED TO REPAIR REBARS. PROCEED WITH A NEW CORE HOLE AS DESCRIBED ABOVE.
- 26. SEALING OF PENETRATIONS
- A. ALL PENETRATIONS OF WALLS, FLOORS OR CEILINGS MUST BE SEALED IN AN APPROVED MANNER USING AN OUTER CIRCUMFERENTIAL SLEEVE FILLED INSIDE AND OUT.
- B. ALL PENETRATIONS OF FIRE RATED WALLS, FLOORS OR CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO PROVIDE SAME RATING AS FLOOR, WALL OR CEILING ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE RATED PARTITIONS.
- 27. HANGERS AND SUPPORTS
- A. THREADED RODS SHALL BE FULLY GALVANIZED, MINIMUM 3/8" DIAMETER. MODULAR CHANNEL SUPPORTS SHALL BE GALVANIZED STEEL. SUPPORT CLIPS AND FASTENERS SHALL BE LISTED AND APPROVED FOR THE APPLICATION. STRAPS AND CLAMPS SHALL BE MALLEABLE IRON.
- B. SUPPORTS SHALL BE SIZED TO ACCOMMODATE THE LOAD REQUIRED. ALL WORK SHALL BE SUPPORTED INDEPENDENTLY OF THE WORK OF OTHER TRADES, INCLUDING CEILING SYSTEM SUPPORTS.
- C. PANELS AND EQUIPMENT LOCATED ON OTHER THAN MASONRY WALLS SHALL BE MOUNTED WITH MODULAR CHANNEL SUPPORTS SECURED TO THE BUILDING STRUCTURE.

D. APPROVED SEISMIC RESTRAINTS RATED TO RESIST ½G OF FORCE SHALL BE FURNISHED FOR ALL ELECTRICAL WORK WHERE REQUIRED BY LOCAL BUILDING CODES AND THE AUTHORITIES HAVING JURISDICTION.

- 28. POWER INTERRUPTION NOTE
- A. ELECTRICAL POWER MUST BE SHUT OFF PRIOR TO THE CONTRACTOR PERFORMING ANY WORK IN RACEWAYS WITH LIVE ELECTRICAL CIRCUITS OR ANY OTHER LIVE ELECTRICAL CIRCUITS OR EQUIPMENT. ANY POWER INTERRUPTION SHALL BE COORDINATED WITH THE OWNER AND BUILDING OPERATING PERSONNEL.
- B. TAPS INTO LIVE RISERS OR PANELS ARE NOT PERMITTED.
- 29. FINAL CLEANUP AND FIELD TESTS
- A. AFTER COMPLETION OF THE ENTIRE ELECTRICAL INSTALLATION:
- a. THE CONTRACTOR, PRIOR TO FINAL ACCEPTANCE, SHALL CLEAN ALL PANELS, SWITCHES, CABINETS, DEVICES PLATES, FIXTURES AND OTHER ITEMS FURNISHED UNDER THIS CONTRACT AND SHALL ENSURE THAT ALL PANELBOARD DIRECTORIES ARE IN PLACE AND COMPLETED OR REVISED AS REQUIRED BY THE WORK, AND THAT ALL IDENTIFICATION AND MARKING OF EQUIPMENT, CABLES, ALL JUNCTION BOXES AND OTHER ITEMS IS COMPLETED.
- b. THE CONTRACTOR SHALL REPAIR OR REPLACE, AS DIRECTED BY THE ENGINEER, ANY ITEM DAMAGED DUE TO INSTALLATION OR RELOCATION OF EQUIPMENT OR DEVICES AT NOT ADDITIONAL COST TO THE OWNER.
- B. IN ADDITION TO OTHER TESTS WHICH MAY BE REQUIRED BY OTHER DIVISIONS, PERFORM FIELD TESTS IN THE PRESENCE OF THE ENGINEER, TO DEMONSTRATE THE PROPER FUNCTIONING OF THE ELECTRICAL INSTALLATION. THE ENGINEER SHALL BE GIVEN A MINIMUM OF 48 HOURS ADVANCE NOTICE OF ALL TESTS. REQUIRED FIELD TESTS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
- a. OPERATION OF ALL ELECTRICAL EQUIPMENT FOR A PERIOD FOR A PERIOD OF 24 HOURS WITHOUT INTERRUPTION. . 1.000 VOLT MEGOHMMETER TEST FOR ALL WIRES AND CABLES FURNISHED. CONTRACTOR SHALL FURNISH A TEST REPORT TO THE ENGINEER INDICATING TEST METHOD USED AND RESULTS.
- C. ALL DEFECTIVE FIXTURES CABLES OR OTHER EQUIPMENT ENCOUNTERED DURING THE COURSE OF TESTING SHALL BE PROMPTLY REPLACED AND RETESTED TO THE SATISFACTION OF THE ENGINEER.
- 30. UNIT PRICE NOTES
- A. CONTRACTOR IS TO SUBMIT UNIT PRICES FOR THE FOLLOWING LISTED ITEMS:
- a. ALL CONDUITS REQUIRED FOR THIS JOB
- b. ALL RECEPTACLES, WALL AND WORKSTATION MOUNTED c. ALL LIGHT FIXTURES
- d. ALL SWITCHES e. TELEPHONE OUTLETS

31. PROJECT CLOSEOUT

- A. AFTER COMPLETION OF PROJECT AND PRIOR TO REQUESTING FINAL PAYMENT, THE CONTRACTOR SHALL GIVEN WRITTEN NOTICE THAT THE FOLLOWING ITEMS HAVE BEEN COMPLETED:
- a. REQUIRED AGENCY APPROVALS.
- b. FINAL CLEANING AND ADJUSTMENT OF LIGHTING FIXTURES AND EQUIPMENT.
- c. RESOLUTION OF OUTSTANDING SUBMITTALS AND PUNCH LIST ITEMS. d. AS-BUILT DRAWINGS.
- e. TURNOVER OF SPARE LAMPS, KEYS, AND ANY REQUIRED SPARE PARTS OR TOOLS.
- f. SYSTEM STARTUP, TESTING AND ADJUSTMENT.
- g. MANUFACTURER'S CERTIFICATIONS, WARRANTIES AND O&M MANUALS.
- h. DEMONSTRATIONS AND OWNER INSTRUCTION.

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ELECTRICAL

SPECIFICATIONS

E-003.00

CON # CAD

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DRAWING TITLE:

PROJECT NUMBER

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DRAWING TITLE:

ELECTRICAL MAIN LEVEL POWER DEMOLITION PLAN

PROJECT NUMBER

14404 DATE 11/19/2024

DRAWING NUMBER

CON # SCALE

AS NOTED

E-101.00

EXISTING MECHANICAL UNITS TO REMAIN, CONTRACTOR TO MAINTAIN CIRCUITS DURING DEMOLITION. DISCONNECT AND REMOVE ALL WALL MOUNTED POWER AND DATA RECEPTACLES. DEMOLISH ALL WIRING AND CABLE BACK TO SOURCE. UNLESS OTHERWISE NOTED. $\langle 2 \rangle$ REVIEW WITH MECHANICAL DRAWINGS FOR ANY MECHANICAL EQUIPMENT TO BE REMOVED. DISCONNECT AND REMOVE CONDUIT AND WIRING BACK TO SOURCE. $\overline{3}$ ELECTRICAL PANEL 'L1AC' TO BE RELOCATED, SEE DWG E-301 FOR NEW LOCATION. EXTEND EXISTING CONDUIT AND WIRING AS REQUIRED. $|\langle 4 \rangle|$ EXISTING SPLICE BOXES AND TIME CLOCK PANEL TO BE REMOVED AFTER ALL CONNECTED CIRCUITS ARE REMOVED $\overline{5}$ ADD/ALT: CONTRACTOR TO RELOCATE SPLICE BOXES AND TIME CLOCK PANEL TO AVAILABLE WALL SPACE IN NEW

KEY NOTES:

ELECTRICAL ROOM.



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KEY NOTES: EXISTING LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROL DEVICES TO BE REMOVED, DISCONNECT CONDUIT AND WIRING BACK TO SOURCE. UNLESS OTHER WISE NOTED. EXISTING LIGHTING FIXTURES TO REMAIN/REUSED, EXISTING LIGHTING CONTROL DEVICES TO BE REMOVED. EXISTING EXTERIOR LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROL DEVICES TO REMAIN, MAINTAIN EXISTING CIRCUITS DURING DEMOLITION.

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DRAWING TITLE:

PROJECT NUMBER

11/19/2024

14404

DATE





AS NOTED

DRAWING NUMBER E-102.00

ELECTRICAL LIGHTING

DEMOLITION PLAN



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GENERAL NOTES:

- 1. REFER TO ARCHITECTURAL PLAN FOR ALL FINAL LIGHTING FIXTURE LOCATIONS, QUANTITIES, AND FIXTURES SELECTIONS LIGHTING FIXTURE SCHEDULE SHOWN FOR REFERENCE ONLY.
- 2. EMERGENCY EGRESS LIGHTING SHALL BE PROVIDED WITH UL924 RELAYS WHERE CONTROLLED WITH LIGHTING CONTROLS SUCH THAT EMERGENCY LIGHTING SHALL TURN ON TO FULL BRIGHTNESS AND UNSTITCHED UPON LOSS OF NORMAL POWER.
- 3. SEE DWG E-201 FOR PANEL LOCATION.
- 4. SEE DWG E-501 FOR LIGHT FIXTURE SCHEDULE.
- 5. CIRCUIT NUMBERS ARE FOR GROUPING INTENT AND FOR REFERENCE ONLY, CONTRACTOR TO UTILIZE CIRCUITS THAT BECOME AVAILABLE FROM DEMOLITION.

KEY NOTES:

1	LIGHTING ZONES 'cc','dd', AND 'ee' CONTROL VIA TIME CLOCK DURING NORMAL OPERATION HOURS (9AM-5PM). LIGHTING ZONE 'ee' CONTROL VIA CEILING MOUNTED OCCUPANCY SENSORS DURING AFTER HOURS.
2	CONTRACTOR TO PROVIDE 750WATT MIN LIGHTING INVERTER RATED FOR 90MIN OF RUN TIME, INVERTER MANUFACTURED BY ISOLITE MODEL: E3X-750-C#1-DIM, OR APPROVED EQUAL.
$\overline{\Lambda}$	DAYLIGHT HARVEST ZONE

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DRAWING TITLE:

ELECTRICAL LIGHTING **REFLECTED CEILING** PLAN

PROJECT NUMBER 14404 DATE 11/19/2024

DRAWING NUMBER

SCALE AS NOTED

CON #

E-201.00



CIRCUIT PREFIX	PANEL										
A#	L1AA (EX)										
B#	L1AB (EX)										
C#	L1AC (EX)										

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DRAWING TITLE:

ELECTRICAL POWER PLAN

E-301.00

CON # PROJECT NUMBER 14404 DATE SCALE 11/19/2024 AS NOTED DRAWING NUMBER

LOCATION: ELECTRICAL ROOM 115.4 PHASE: 3 MURE: 4 MRE: 4 MRE: 4 MRE: 4 L <thl< th=""> L L L <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>DESIGNA TION</th></t<></thl<>															DESIGNA TION
MOUNTING BUS: 400A WARE 4 VOLTAGE: 208/120V LLAA MNN: 400A : RATED AT 100% AIC RATING 22,000 MINIMUM TED FROM TED FROM TED FROM UTILTY DESCRIPTION BKR KVA CKT CKT KVA BKR BKR KVA TED FROM UTILTY DESCRIPTION BKR KVA CKT CKT KVA BKR BKR KVA TED FROM UTILTY DESCRIPTION BKR KVA CKT KVA BKR BKR KVA TED FROM UTILTY DESCRIPTION BKR KVA CKT KKA A B C SZE EXISTING LIGHTING 20 0.5 S 7 B S 0.5 20 EXISTING LIGHTING EXISTING LIGHTING 20 SD S 11 A 12 20 SPARE EXISTING LIGHTING 20 SD S 13 B 14 20 SPARE EXISTING LIGHTING 20 SD S 17 A 18 20 20 SPARE EXISTING LIGHTING 20 SD 17 A 18 20	LOCATION: ELECTRICAL ROOM 115.4											3			
BUS: 400A VOLTAGE: 208 V1 20V LIAC MAIN: 400A ; RATED AT 100% AIC RATING: 22,000 MINIMUM FED FROM UTILITY DESCRIPTION BKR C KVA A B C C KVA KVA A B C KVA A B C Size A B C Size KVA A B C Size EXISTING LIGHTING 20 0.5 0.5 1 B 2.0 5.0 2.0 EXISTING LIGHTING EXISTING LIGHTING 20 0.5 7 B 8 0.5 2.0 EXISTING LIGHTING EXISTING LIGHTING 20 0.5 7 B 8 0.5 2.0 EXISTING LIGHTING EXISTING LIGHTING 20 0.5 13 B 1.4 2.0 SPARE EXISTING LIGHTING 20 0.5 15 C 16 2.0 SPARE EXISTING LIGHTING 20 2.0 17 A 18 2.0 SPARE EXISTING LIGHTING 2.0 2.0 2.0 2.0 SPARE 2.0 SPARE EXISTING LIGHTING 2.0	MOUNTING:									WIRE:					1 1 7 7
MAIN: AODA : RATED AT 100% AIC RATING: 2,000 MINIMUM FED FROM UTLITY DESCRIPTION BKR KVA CKT KVA BKR BKR KVA BKR BKR KVA KING LIGHTING 20 CIGHTING 20 C/S U 11 A 12 U U EXISTING LIGHTING 20 SPARE 20 SPARE<	BUS: 4	100A							VOLT	FAGE:		208Y/	120V		
Description BKR KVA CKT CKT KVA KVA <th< td=""><td>MAIN: 4</td><td>100A ;</td><td>RATED</td><td>) AT 1</td><td>00%</td><td></td><td></td><td></td><td>AIC F</td><td>RATIN</td><td>G:</td><td>22,0</td><td>000</td><td>MINI</td><td>мим</td></th<>	MAIN: 4	100A ;	RATED) AT 1	00%				AIC F	RATIN	G:	22,0	000	MINI	мим
Description Brk KVA CRT CRT KVA Brk Brk<															FED FROM: UTILITY
SALE A D C A D C A D C A D C A D C A D C A D C A D C D <thd< th=""> D <thd< th=""> <thd< th=""></thd<></thd<></thd<>	DESCRIPTION			BKR	Δ	KVA B	c	СКТ. #		CKT. #	Δ	KVA B	c	BKR	DESCRIPTION
EXISTING LIGHITNG 20 0.5 3 C 4 0.5 20 EXISTING LIGHITNG EXISTING LIGHITNG 20 0.5 0.5 7 B 6 0.5 20 EXISTING LIGHITNG EXISTING LIGHITNG 20 0.5 0.5 7 B 6 0.5 20 EXISTING LIGHITNG EXISTING LIGHITNG 20 0.5 0.5 11 A 12 20 SPARE EXISTING LIGHITNG 20 0.5 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 20 SPARE 20 SPARE SPARE 20 2.0 2.1 C 20 SPARE SPARE 20 SPARE 20 SPARE </td <td>EXISTING LIGHITNG</td> <td></td> <td></td> <td>20</td> <td>~</td> <td>0.5</td> <td></td> <td>1</td> <td>в</td> <td>2</td> <td>~</td> <td>0.5</td> <td><u> </u></td> <td>20</td> <td>EXISTING LIGHITNG</td>	EXISTING LIGHITNG			20	~	0.5		1	в	2	~	0.5	<u> </u>	20	EXISTING LIGHITNG
EXISTING LIGHITNG 20 0.5 0.5 7 8 8 0.5 20 EXISTING LIGHITNG EXISTING LIGHITNG 20 0.5 0.5 9 C 10 0.5 20 EXISTING LIGHITNG EXISTING LIGHITNG 20 0.5 0.5 9 C 10 0.5 20 EXISTING LIGHITNG EXISTING LIGHITNG 20 0.5 13 B 14 A 12 20 SPARE EXISTING LIGHITNG 20 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 17 A 18 20 SPARE EXISTING LIGHITNG 20 2.0 2.1 C 20 SPARE 20 SPARE SPARE 2.0 2.0 2.1 C 2.0 SPARE 20 SPARE SPARE 20 SPARE 20 SPARE 20 SPARE 20 SPARE	EXISTING LIGHITNG			20			0.5	3		4			0.5	20	
EXISTING LIGHITNG 20 0.5 7 B 8 0.5 20 EXISTING LIGHITNG EXISTING LIGHITNG 20 0.5 0.5 9 C 10 0.5 20 EXISTING LIGHITNG EXISTING LIGHITNG 20 0.5 0.5 11 A 12 20 SPARE EXISTING LIGHITNG 20 0.5 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 17 A 18 4 20 SPARE EXISTING LIGHITNG 20 0.5 17 A 18 20 SPARE SPARE 20 0.5 16 C 23 A 24 20 SPARE SPARE 20 SPARE 20 SPARE 20 SPARE 20 SPARE SPARE 20 SPARE 20 SPARE 20 SPARE 20 SPARE SPACE <t< td=""><td>EXISTING LIGHITNG</td><td></td><td></td><td>20</td><td>0.5</td><td></td><td></td><td>5</td><td>Α</td><td>6</td><td>0.5</td><td></td><td></td><td>20</td><td>EXISTING LIGHITNG</td></t<>	EXISTING LIGHITNG			20	0.5			5	Α	6	0.5			20	EXISTING LIGHITNG
EXISTING LIGHITNG 20 0.5 9 C 10 0.5 20 EXISTING LIGHITNG EXISTING LIGHITNG 20 0.5 0.5 11 A 12 20 SPARE EXISTING LIGHITNG 20 0.5 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 17 A 18 20 SPARE EXISTING LIGHITNG 20 20 SPARE 20 SPARE 20 SPARE SPARE 20 2.0 2.1 C 22 SPARE 20 SPARE SPARE 20 20 SPARE 20 SPARE 20 SPARE 20 SPARE SPARE 20 4.0 7 C 28 A 30 5.0 6.0 150 (E) ACU-1 SPAR	EXISTING LIGHITNG			20		0.5		7	В	8		0.5		20	EXISTING LIGHITNG
EXISTING LIGHITNG 20 0.5 0.5 11 A 12 20 SPARE EXISTING LIGHITNG 20 0.5 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 15 C 16 20 SPARE EXISTING LIGHITNG 20 0.5 15 C 16 20 SPARE WATER HEATER* 25 2.0 19 B 20 SPARE 20 SPARE SPARE 20 2.0 21 C 22 20 SPARE SPARE 20 2.0 21 C 22 20 SPARE SPARE 20 2.0 27 C 28 1.7 20 (E) ACU-1 SPARE 20 20 SPARE 20 SPARE 20 SPARE (E) LP-AB 150 4.0 7.0 33 C 34 6.0 150 (E) LP-AC SPACE 39 C 40 SPACE SPACE SPACE	EXISTING LIGHITNG			20			0.5	9	С	10			0.5	20	EXISTING LIGHITNG
EXISTING LIGHITNG 20 20 0.5 13 B 14 20 SPARE EXISTING LIGHITNG 20 20 17 A 18 20 SPARE WATER HEATER* 25 2.0 17 A 18 20 SPARE SPARE 20 20 SPARE 20 SPARE 20 SPARE SPARE 20 20 21 C 22 20 SPARE SPARE 20 20 23 A 24 20 SPARE SPARE 20 20 27 C 28 1.7 20 (E) ACU-1 SPARE 20 29 A 30 20 SPARE 20 SPARE (E) LP-AB 150 31 B 32 5.0 6.0 150 (E) LP-AC SPACE 39 C 40 35 A 36 4.0 SPACE SPACE 14 A 42 SPACE SPACE SPACE SPACE SPACE </td <td>EXISTING LIGHITNG</td> <td></td> <td></td> <td>20</td> <td>0.5</td> <td></td> <td></td> <td>11</td> <td>Α</td> <td>12</td> <td></td> <td></td> <td></td> <td>20</td> <td>SPARE</td>	EXISTING LIGHITNG			20	0.5			11	Α	12				20	SPARE
EXISTING LIGHITNG 20 20 0.5 15 C 16 20 SPARE WATER HEATER* 25 2.0 19 B 20 20 SPARE SPARE 20 21 C 22 20 SPARE SPARE 20 21 C 22 20 SPARE SPARE 20 21 C 28 20 SPARE SPARE 20 20 27 C 28 1.7 20 (E) ACU-1 SPARE 20 20 31 B 32 5.0 1.7 20 (E) ACU-1 SPARE 20 31 B 32 5.0 1.7 20 (E) ACU-1 SPARE 20 33 C 34 30 20 SPARE (E) LP-AB 150 7.0 33 C 34 4.0 5.0 SPACE 39 C 40 38 SPACE SPACE SPACE SPACE 39 C 40 SPACE </td <td>EXISTING LIGHITNG</td> <td></td> <td></td> <td>20</td> <td></td> <td>0.5</td> <td></td> <td>13</td> <td>В</td> <td>14</td> <td></td> <td></td> <td></td> <td>20</td> <td>SPARE</td>	EXISTING LIGHITNG			20		0.5		13	В	14				20	SPARE
WATER HEATER* 20 2.0 17 A 18 20 SPARE SPARE 20 2.0 21 C 22 20 SPARE SPARE 20 23 A 24 20 SPARE SPARE 20 23 A 24 20 SPARE SPARE 20 27 C 28 1.7 20 (E) ACU-1 SPARE 20 29 A 30 20 SPARE (E) LP-AB 150 6.0 31 B 32 5.0 150 (E) LP-AB 150 6.0 37 B 38 SPACE SPACE SPACE 39 C 40 35 A 36 4.0 SPACE SPACE 17 17 19 96 143 160 SPACE SPACE SPACE SPACE 0 100% 0 1. * = NEW CIRCUIT BREAKER SPACE LOAD SUMMARY CON. KVA % DEM. KVA Amps 1. * = NEW C	EXISTING LIGHITNG			20			0.5	15	С	16				20	SPARE
WATER HEATER* 25 2.0 2.0 19 B 20 20 SPARE SPARE 20 2.0 2.0 2.0 2.0 2.0 20 SPARE SPARE 20 20 20 20 20 SPARE 20 SPARE SPARE 20 20 20 20 20 SPARE 20 SPARE SPARE 20 20 20 20 20 SPARE 20 SPARE SPARE 20 20 20 20 SPARE 20 SPARE SPARE 20 20 20 31 B 32 5.0 20 SPARE (E) LP-AB 150 6.0 7.0 33 C 34 6.0 150 (E) LP-AC SPACE 39 C 40 37 B 38 SPACE SPACE SPACE SPACE 1 1 A 42 KVA SPACE SPACE SPACE SPACE SPACE SPACE SPACE <t< td=""><td></td><td></td><td></td><td></td><td>2.0</td><td></td><td></td><td>17</td><td>Α</td><td>18</td><td></td><td></td><td></td><td>20</td><td>SPARE</td></t<>					2.0			17	Α	18				20	SPARE
SPARE 20 21 C 22 20 SPARE SPARE 20 20 25 B 26 1.7 20 SPARE SPARE 20 20 27 C 28 1.7 20 (E) ACU-1 SPARE 20 20 20 27 C 28 1.7 20 (E) ACU-1 SPARE 20 20 20 29 A 30 20 SPARE SPARE 20 7.0 33 C 34 5.0 150 (E) LP-AC (E) LP-AB 150 7.0 33 C 34 6.0 150 (E) LP-AC SPACE 4.0 7.0 33 C 34 36 4.0 SPACE SPACE 150 7.0 39 C 40 SPACE SPACE SPACE SPACE 12 17 19 KVA Maps Amps Amps LOAD SUMMARY CON. KVA % DEM. KVA A 4. S	WATER HEATER *			25		2.0		19	В	20				20	SPARE
SPARE 20 20 23 A 24 20 SPARE SPARE 20 25 B 26 1.7 20 (E) ACU-1 SPARE 20 27 C 28 1.7 20 (E) ACU-1 SPARE 20 27 C 28 1.7 20 (E) ACU-2 SPARE 20 31 B 32 5.0 20 SPARE (E) LP-AB 150 7.0 33 C 34 6.0 150 (E) LP-AC SPACE 4.0 35 A 36 4.0 SPACE SPACE <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.0</td> <td>21</td> <td>С</td> <td>22</td> <td></td> <td></td> <td></td> <td>20</td> <td>SPARE</td>							2.0	21	С	22				20	SPARE
SPARE 20 20 20 20 20 27 C 28 1.7 20 (E) ACU-1 SPARE 20 20 20 27 C 28 1.7 20 (E) ACU-2 SPARE 20 20 20 31 B 32 50 20 SPARE (E) LP-AB 150 6.0 7.0 33 C 34 6.0 150 (E) LP-AC SPACE 4.0 37 B 38 50 SPACE	SPARE			20				23	Α	24				20	SPARE
SPARE 20 27 C 28 1.7 20 (E) ACU-2 SPARE 20 20 29 A 30 20 SPARE (E) LP-AB 150 6.0 31 B 32 5.0 1.0 (E) LP-AC SPACE 7.0 33 C 34 36 4.0 5.0 (E) LP-AC SPACE 150 7.0 33 C 34 36 4.0 5.0 (E) LP-AC SPACE 150 39 C 40 39 C 40 SPACE SPACE 12 17 19 38 SPACE SPACE SPACE SPACE 12 17 19 443 42 KVA Amps LOAD SUMMARY CON. KVA % DEM. KVA Mmps Amps Amps Amps LIGHTS (INT.) 0 125% 0 1. * = NEW CIRCUIT BREAKER 2. LIGHTS (INT.) 0 125% 8 4. 5. 5. EQUIP: NON-CONTINUOUS	SPARE			20				25	В	26		1.7		20	(E) ACU-1
SPARE 20 20 20 20 30 20 SPARE (E) LP-AB 150 6.0 7.0 33 C 34 6.0 150 (E) LP-AC SPACE 4.0 35 A 36 4.0 5.0 150 (E) LP-AC SPACE 4.0 37 B 38 SPACE SPACE <t< td=""><td>SPARE</td><td></td><td></td><td>20</td><td></td><td></td><td></td><td>27</td><td>С</td><td>28</td><td></td><td></td><td>1.7</td><td>20</td><td>(E) ACU-2</td></t<>	SPARE			20				27	С	28			1.7	20	(E) ACU-2
(E) LP-AB 150 6.0 31 B 32 5.0 150 (E) LP-AC SPACE 4.0 35 A 36 4.0 50 50 50 SPACE 37 B 38 SPACE SPAC	SPARE			20				29	Α	30				20	SPARE
(E) LP-AB 150 7.0 33 C 34 6.0 150 (E) LP-AC SPACE 37 B 38 SPACE SPACE SPACE SPACE SPACE 39 C 40 SPACE SPACE SPACE SPACE SPACE 12 17 19 KVA SPACE SPACE SPACE LOAD SUMMARY CON. KVA % DEM. KVA 41 A 42 SPACE SPACE LOAD SUMMARY CON. KVA % DEM. KVA Amps Amps Amps LOAD SUMMARY 0 100% 0 1. * = NEW CIRCUIT BREAKER 2. LIGHTS (INT.) 0 125% 0 3. 4. 3. 4. EQUIP: CONTINUOUS 6 125% 8 4. 5. 6. KITCHEN 0 65% 0 6. 6. 6.						6.0		31	В	32		5.0			
4.0 35 A 36 4.0 SPACE SPACE 37 B 38 SPACE SPACE 39 C 40 SPACE SPACE 41 A 42 SPACE 12 17 19 KVA SPACE SPACE 12 17 19 KVA Mmps Amps LOAD SUMMARY CON. KVA % DEM. KVA Amps IGHTS (INT.) 0 100% 0 1. * = NEW CIRCUIT BREAKER LIGHTS (INT.) 0 125% 0 3. 4. EQUIP: CONTINUOUS 6 125% 8 4. EQUIP: NON-CONTINUOUS 0 100% 0 5. KITCHEN 0 65% 0 6.	(E) LP-AB			150			7.0	33	C	34			6.0	150	(E) LP-AC
SPACE 37 B 38 SPACE SPACE 39 C 40 SPACE SPACE 41 A 42 SPACE 12 17 19 KVA Mark 96 143 160 Amps LOAD SUMMARY CON. KVA % DEM. KVA Mark PANEL NOTES: NOTOR 0 100% 0 1. * = NEW CIRCUIT BREAKER LIGHTS (INT.) 0 125% 0 3. 4. EQUIP: CONTINUOUS 6 125% 8 4. EQUIP: NON-CONTINUOUS 0 100% 0 5. KITCHEN 0 65% 0 6.	SDACE				4.0			35	<u>A</u>	36	4.0				SDACE
SPACE 33 C 40 SPACE SPACE 41 A 42 SPACE 12 17 19 KVA 96 143 160 Amps LOAD SUMMARY CON. KVA % DEM. KVA Amps NOTOR 0 100% 0 1. * = NEW CIRCUIT BREAKER LIGHTS (INT.) 0 125% 0 1. * = NEW CIRCUIT BREAKER 2. 3. 4. 5. 6 125% 8 EQUIP: NON-CONTINUOUS 0 100% 0 5. 6. MECH: HEATING 0 65% 0 6.	SPACE							3/	<u> </u>	30					SPACE
Image: Stract Image: Stract Image: Stract Image: Stract Image: Stract Image: Stract 12 17 19 KVA 96 143 160 Amps LOAD SUMMARY CON. KVA % DEM. KVA Amps MOTOR 0 100% 0 LIGHTS (INT.) 0 125% 0 LIGHTS (EXT.) 0 100% 0 EQUIP: CONTINUOUS 6 125% 8 EQUIP: NON-CONTINUOUS 0 100% 0 KITCHEN 0 65% 0 MECH: HEATING 0 100% 0	SPACE							11		40					SPACE
IZ IT IS IN 96 143 160 Amps LOAD SUMMARY CON. KVA % DEM. KVA PANEL NOTES: RECEPTACLES 0.0 code 0.0 1. * = NEW CIRCUIT BREAKER MOTOR 0 125% 0 1. * = NEW CIRCUIT BREAKER LIGHTS (INT.) 0 125% 0 3. 2. LIGHTS (EXT.) 0 100% 0 4. 5. EQUIP: NON-CONTINUOUS 0 100% 0 5. 6. MECH: HEATING 0 65% 0 6. 6.	JFAUL							12	A	42	κιλ				3FACE
LOAD SUMMARY CON. KVA % DEM. KVA RECEPTACLES 0.0 code 0.0 MOTOR 0 100% 0 LIGHTS (INT.) 0 125% 0 LIGHTS (EXT.) 0 100% 0 EQUIP: CONTINUOUS 6 125% 8 EQUIP: NON-CONTINUOUS 0 100% 0 KITCHEN 0 65% 0 MECH: HEATING 0 100% 0								96	143	160	Amp	\$			
RECEPTACLES 0.0 code 0.0 MOTOR 0 100% 0 1. * = NEW CIRCUIT BREAKER LIGHTS (INT.) 0 125% 0 3. 3. LIGHTS (EXT.) 0 100% 0 4. 5. EQUIP: NON-CONTINUOUS 0 100% 0 6. MITCHEN 0 65% 0 6.	LOAD SUMMARY		CON.	KVA	C	% DI	EM. KV	VA			, and	0			
MOTOR 0 100% 0 1 * = NEW CIRCUIT BREAKER LIGHTS (INT.) 0 125% 0 2 3 3 LIGHTS (EXT.) 0 100% 0 4 5 5 EQUIP: NON-CONTINUOUS 0 65% 0 6 6 6 MECH: HEATING 0 100% 0 6 6 6	RECEPTACLES		0.0)	со	de	0.	.0		PAN	EL NO	TES:			
LIGHTS (INT.) 0 125% 0 2 LIGHTS (EXT.) 0 100% 0 3 EQUIP: CONTINUOUS 6 125% 8 4 EQUIP: NON-CONTINUOUS 0 100% 0 5 KITCHEN 0 65% 0 6 MECH: HEATING 0 100% 0	MOTOR		0		10	0%	()		1.	* = N	EWCI	ксип	BRE	AKER
LIGHTS (EXT.) 0 100% 0 3 EQUIP: CONTINUOUS 6 125% 8 4 EQUIP: NON-CONTINUOUS 0 100% 0 5 KITCHEN 0 65% 0 6 MECH: HEATING 0 100% 0 6	LIGHTS (INT.)		0		12	5%	()		2.					
EQUIP: CONTINUOUS 6 125% 8 4 EQUIP: NON-CONTINUOUS 0 100% 0 5 KITCHEN 0 65% 0 6 MECH: HEATING 0 100% 0	LIGHTS (EXT.)		0		10	0%	()		З.					
EQUIP: NON-CONTINUOUS 0 100% 0 5 KITCHEN 0 65% 0 6 MECH: HEATING 0 100% 0	EQUIP: CONTINUOUS		6		12	5%	8	3		4.					
KITCHEN 0 65% 0 6. MECH: HEATING 0 100% 0 6.	EQUIP: NON-CONTINU	ious	0		10	0%	()	1	5.					
	KITCHEN		0		65	5%	()		6.					
	MECH: HEATING		0		10	0%	()							
MECH: COOLING 0 100% 0	MECH: COOLING		0		10	0%	C)							
POOL 0 100% 0	POOL		0		10	0%	0)							
MISC. 42 100% 42	MISC.		42		10	0%	4	2							
LARGEST MTR 25% 11	LARGEST MTR				25	5%	1	1							
TOTAL KVA - 60	TOTAL KVA		48 K	VA		-	6	0							
TOTAL AMPS 133 A - 167	TOTAL AMPS		133	A		-	16	67							

LOCATION: ELEC RC	OM 115.4					PHA	SE:		3	6		DESIGNA TION
BUS 225A							 ГАСЕ		2001	, //1 201/1		L1AB
									2001	000	МЛІКШ	
						AIC I	XATIN	I G .	22	,000	WIINI	FED FROM: L1AA
DESCRIPTION	BKR		KVA		CKT		CKT.		KVA		BKR	DESCRIPTION
	SIZE	Α	в	С	#		#	Α	в	С	SIZE	
RECEPTACLES RM 114.1.B	20		0.4		1	В	2		0.9		20	IT RECEPTACLES
COPIER	20			* 1.0	3	С	4			0.5	20	RECEPTACLES
RECEPTACLES	20				5	Α	6	0.7			20	RECEPTACLES
RECEPTACLES	20		0.5		7	В	8		0.7		20	RECEPTACLES
RECEPTACLES	20			0.4	9	С	10			0.4	20	RECEPTACLES
RECEPTACLES	20	0.5			11	Α	12	1.0			20	COPIER
RECEPTACLES	20		0.4		13	В	14		0.4		20	RECEPTACLES
RECEPTACLES	20			0.5	15	С	16			1.0	20	RECEPTACLES
(E) RECEPTACLES RM 114.1.	3 20	1.0			17	Α	18				20	IT RECEPTACLES
(E) RECEPTACLES RM 114.1.	3 20		0.7		19	В	20		1.0		20	(E) RECEPTACLES RM C03.2.D
RECEPTACLES	20			0.4	21	С	22				20	IT RECEPTACLES
(E) RECEPTACLES RM C03.2	.D 20	0.5			23	Α	24				20	IT RECEPTACLES
LD, CP	20				25	В	26				20	IT RECEPTACLES
SPARE	20				27	С	28				20	SPARE
SPARE	20				29	Α	30	0.8			20	(E) MECHANICAL EQUIPMENT
SPARE	20				31	В	32		0.5		20	(E) MECHANICAL EQUIPMENT
SPARE	20				33	С	34				20	BMS PANEL
(E) RECEPTACLES RM 116.6.I	D 20	0.7			35	Α	36				20	SPARE
(E) RECEPTACLES RM 116.6.I	D 20		1.2		37	В	38				20	SPARE
(E) RECEPTACLES RM 116.6.I	D 20			0.2	39	С	40				20	SPARE
SPARE	20				41	Α	42	0.4			20	STAFF LOUNGE RECEP.
	•				6	7	4	KVA				
					47	55	36	Amp	5			
LOAD SUMMARY	CON. KVA		% D	EM. K\	/A			-				
RECEPTACLES	0.0	cc	ode	0.	0		PAN	el no	TES:			
MOTOR	0	10	0%	C)		1.					
LIGHTS (INT.)	0	12	25%	C)	1	2.					
LIGHTS (EXT.)	0	10	0%	C)	1	З.					
EQUIP: CONTINUOUS	0	12	25%	C)	1	4.					
EQUIP: NON-CONTINUOUS	0	10	0%	C)	1	5.					
KITCHEN	0	6	5%	C)	1	6.					
MECH: HEATING	0	10	0%	C)	1						
MECH: COOLING	0	10	0%	C)	1						
POOL	0	10	0%	C)	1						
MISC.	7	10	0%	7	,	1						
LARGEST MTR		2	5%	1	1							
TOTAL KVA	7 KVA		-	1	7	1						
					·							

											DESIGNA TION
LOCATION: ELEC F	ROOM 115.4				PHAS	SE:		3			
MOUNTING:					WIRE			4			
BUS: 225A					VOLI	AGE	:	208Y	/120V		
MAIN: 150A	RAIED AT 1	100%			AIC R	ATIN	IG:	22,	000	MINI	
DESCRIPTION	BKR	KVA		СКТ		СКТ		κVΔ		BKP	
	SIZE		c	#		#	A	В	с	SIZE	
SPARE	20		_	1	в	2		_		20	(E) RECEPTACLES RM 111.1.D
SPARE	20			3	С	4				20	(E) RECEPTACLES RM 110.2.D
SPARE	20			5	Α	6				20	SPARE
(E) RECEPTACLES RM 108.	1.D 20	1.0		7	В	8		0.7		20	RECEPTACLES
RECEPTACLES	20		0.2	9	С	10			0.7	20	RECEPTACLES
SPARE	20			11	Α	12	0.9			20	RECEPTACLES
RECEPTACLES	20	0.4		13	В	14		0.7		20	RECEPTACLES
LIGHITNG FIX TURES	20		0.5	15	С	16			1.0	20	BBH
LIGHITNG FIX TURES	20	0.5		17	Α	18	1.0			20	BBH
LIGHITNG FIX TURES	20	0.5		19	В	20		1.0		20	BBH
LIGHITNG FIXTURES	20		0.5	21	С	22			1.0	20	BBH
LIGHITNG FIXTURES	20	0.5		23	Α	24	1.0			20	BBH
SPARE	20			25	В	26		1.0		20	BBH
SPARE	20			27	С	28			0.5	20	FAN & MD
SPARE	20			29	Α	30	1.0			20	EUH
SPARE	20			31	В	32		1.0		20	EUH
SPARE	20			33	С	34				20	SPARE
SPARE	20			35	Α	36				20	SPARE
SPARE	20			37	В	38				20	SPARE
SPARE	20			39	С	40				20	SPARE
SPARE	20			41	<u>A</u>	42				20	SPARE
				5	6	4	KVA				
				41	53	37	Amp	S			
		% L		A	-			TEC.			
MOTOR	0.0	100%	0.0	,	-			IES:			
	0	125%	0		-	ו. כ					
	0	12076	0		-	2. 2					
	0	125%	0		{	J. ⊿					
	0	120%	0		-	ч. 5					
KITCHEN	0	65%	0		{	6.					
	0	100%			ł	0.					
	0	100%	0		-						
POOL	0	100%			{						
MISC	2	100%	2		{						
LARGEST MTR	-	25%	11		{						
TOTAL KVA	2 KVA	-	12)	1						
TOTAL AMPS	4 A	-	34	1	1						



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OUTPATIENT DIAGNOSTIC & TREATMENT FACILITY **ALTERATIONS - MAIN LEVEL**

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KEY PLAN: NOT TO SCALE



New York City + Washington, DC + Princeton + Durham + Toronto

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DRAWING TITLE:

ELECTRICAL RISER DIAGRAM AND PANEL SCHEDULES

PROJECT NUMBER 14404 DATE

11/19/2024 DRAWING NUMBER

^{scale} N.T.S.

E-401.00

CON #



2			

- (1) PANEL DESIGNATION
- (2)CIRCUIT NUMBER IN PANEL
- EQUIPMENT SERVED OR OFFICE NO.
- FEEDER SIZE (NUMBER OF WIRES, WIRE SIZE AND CONDUIT SIZE) FOR LOCAL DISCONNECT SWITCHES; JUNCTION BOXES FOR HVAC, PLUMBING, FIRE PROTECTION EQUIPMENT; MOTOR STARTERS (FOR RECEPTACLES AND LIGHTING CONTROL SWITCHES INDICATE POWER SOURCE ONLY: PANEL AND CIRCUIT NUMBER)

SAMPLE NAMEPLATE FOR RECEPTACLES, POWER JUNCTION BOXES,

LIGHT FIXTURE LEGEND

				הסוערה
		WATTAGE	VULIAGE	DRIVER
TBD	TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD	TBD
TBD	TBD	TBD	TBD	TBD

Montefiore

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DRAWING TITLE:

ELECTRICAL DETAILS

PROJECT NUMBER	CON #	
14404	CAD	
DATE	SCALE	
11/19/2024	N.T.S.	
DRAWING NUMBER		

E-501.00